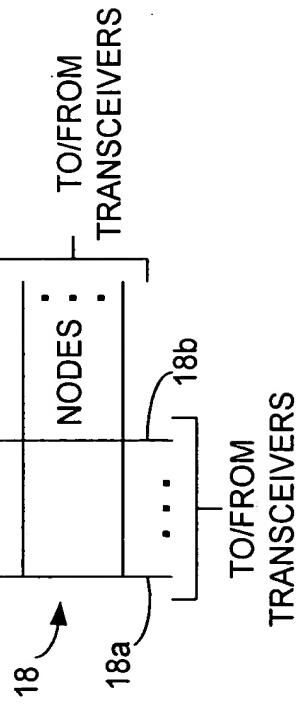


FIG. 1A



10"

DATA ACQUISITION/ANALYSIS SYSTEM

MONITORING SYSTEM
(SECOND EMBODIMENT)

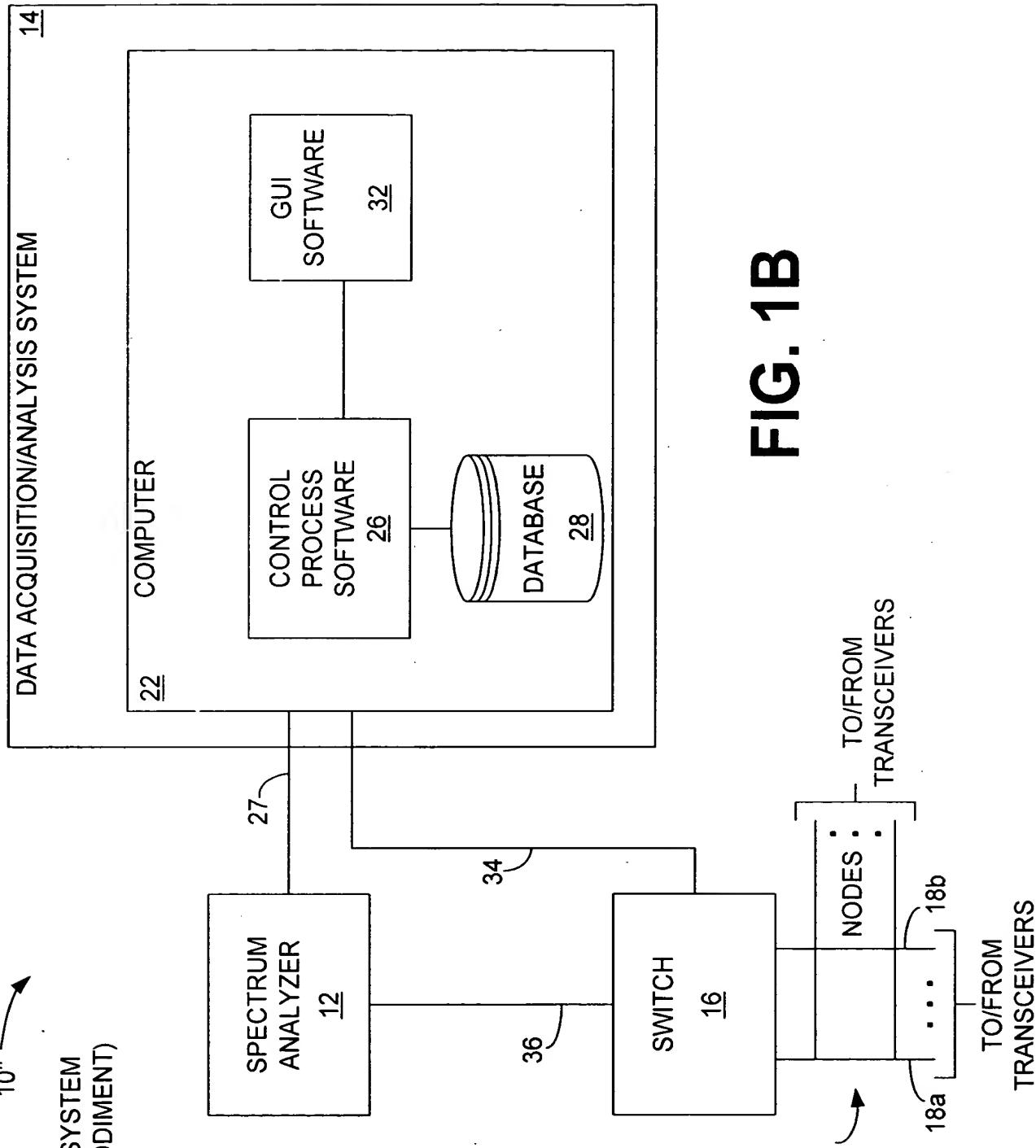
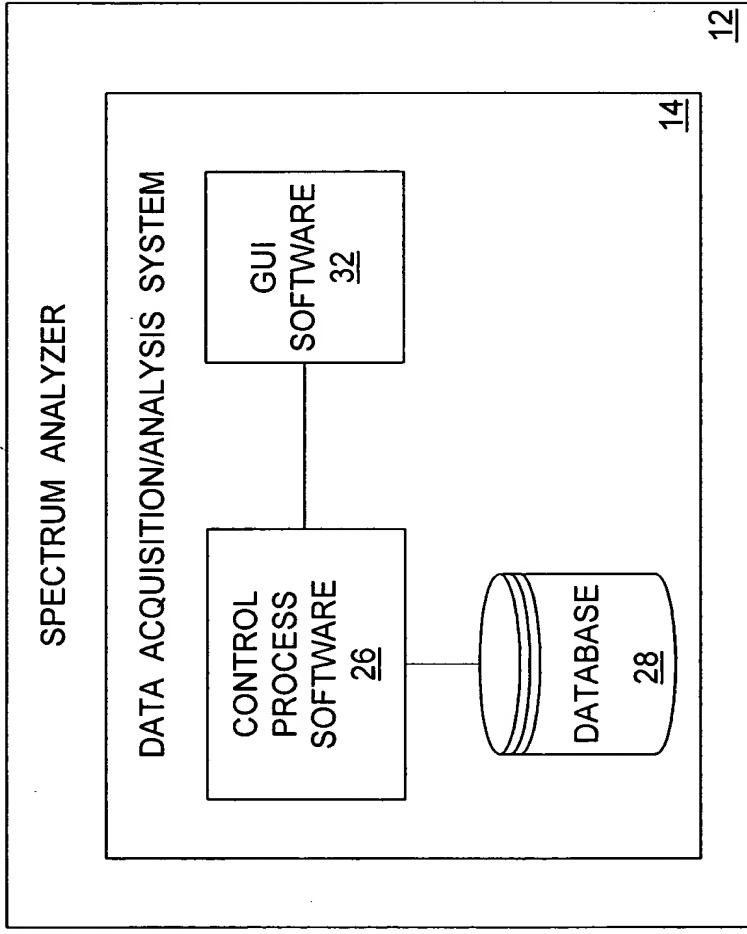


FIG. 1B



10¹¹
MONITORING SYSTEM
(THIRD EMBODIMENT)

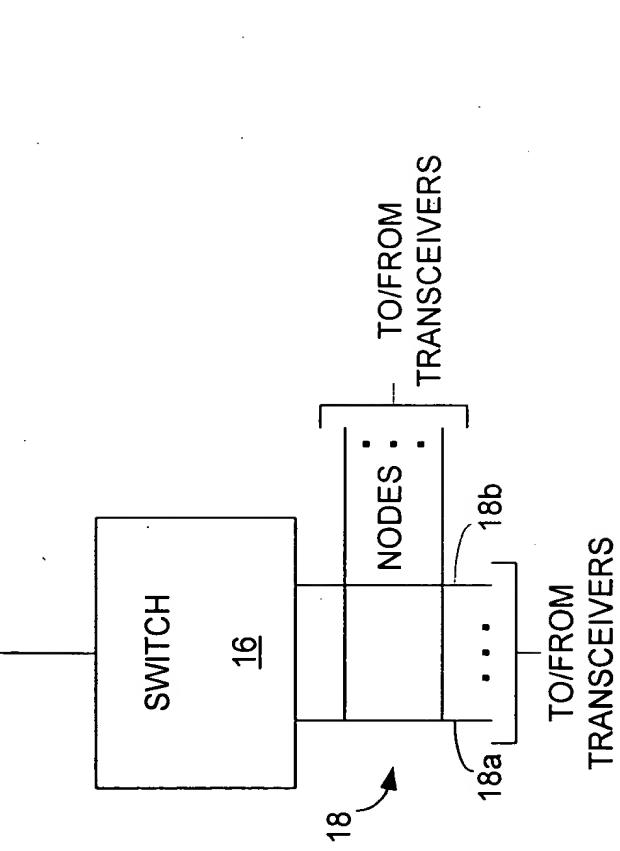


FIG. 1C

DATA STRUCTURE OF DATABASE

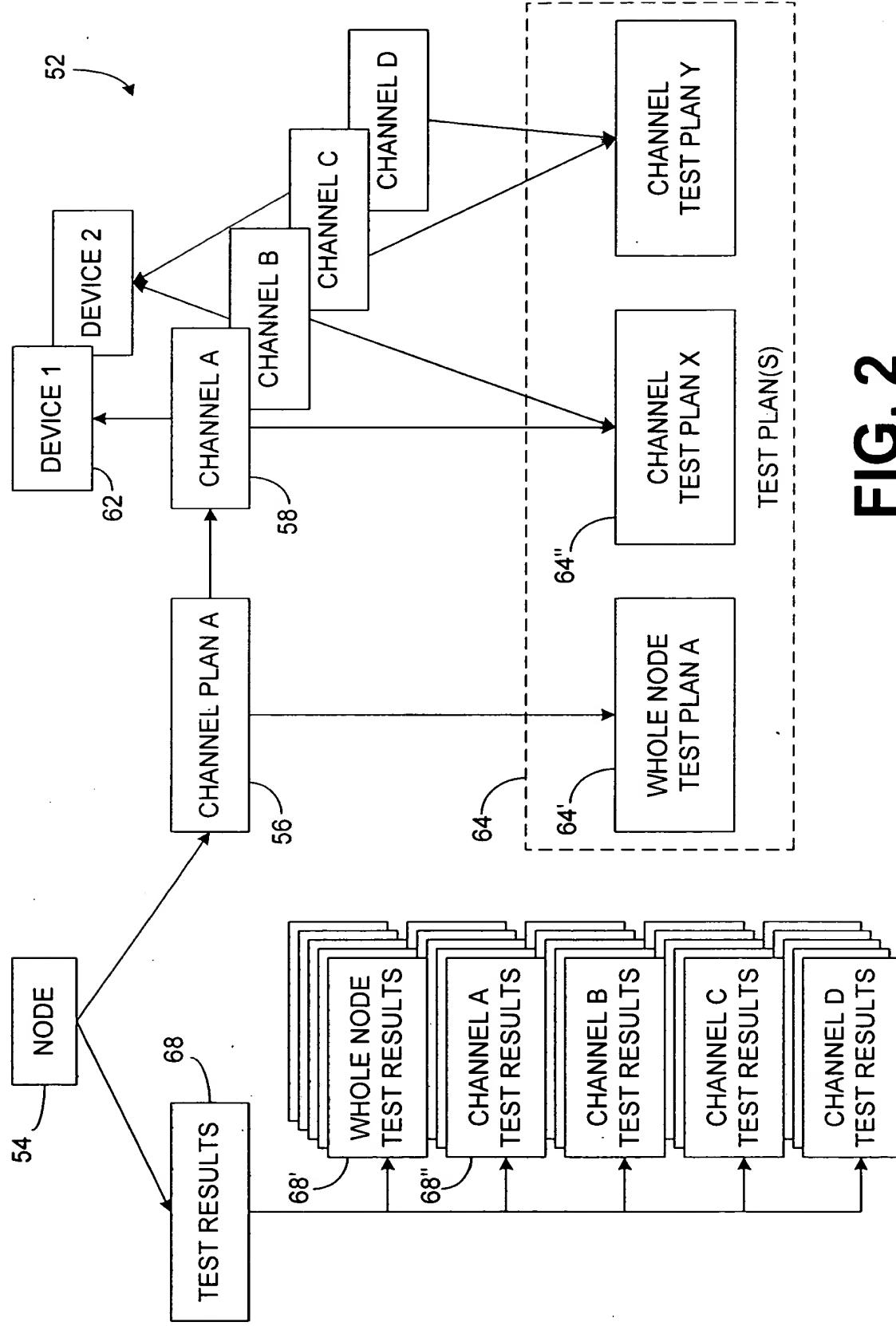


FIG. 2

CHANNEL PLAN

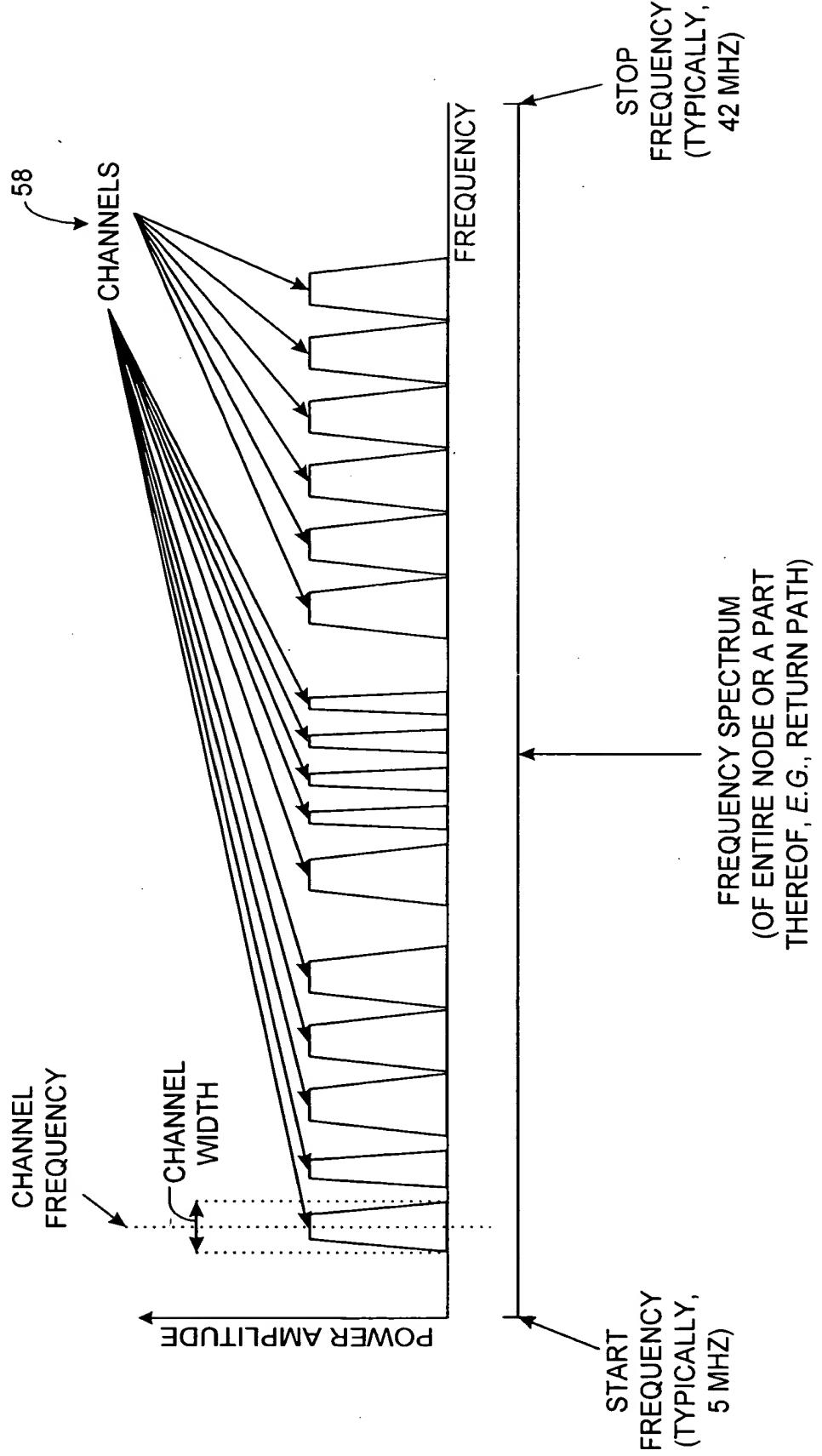
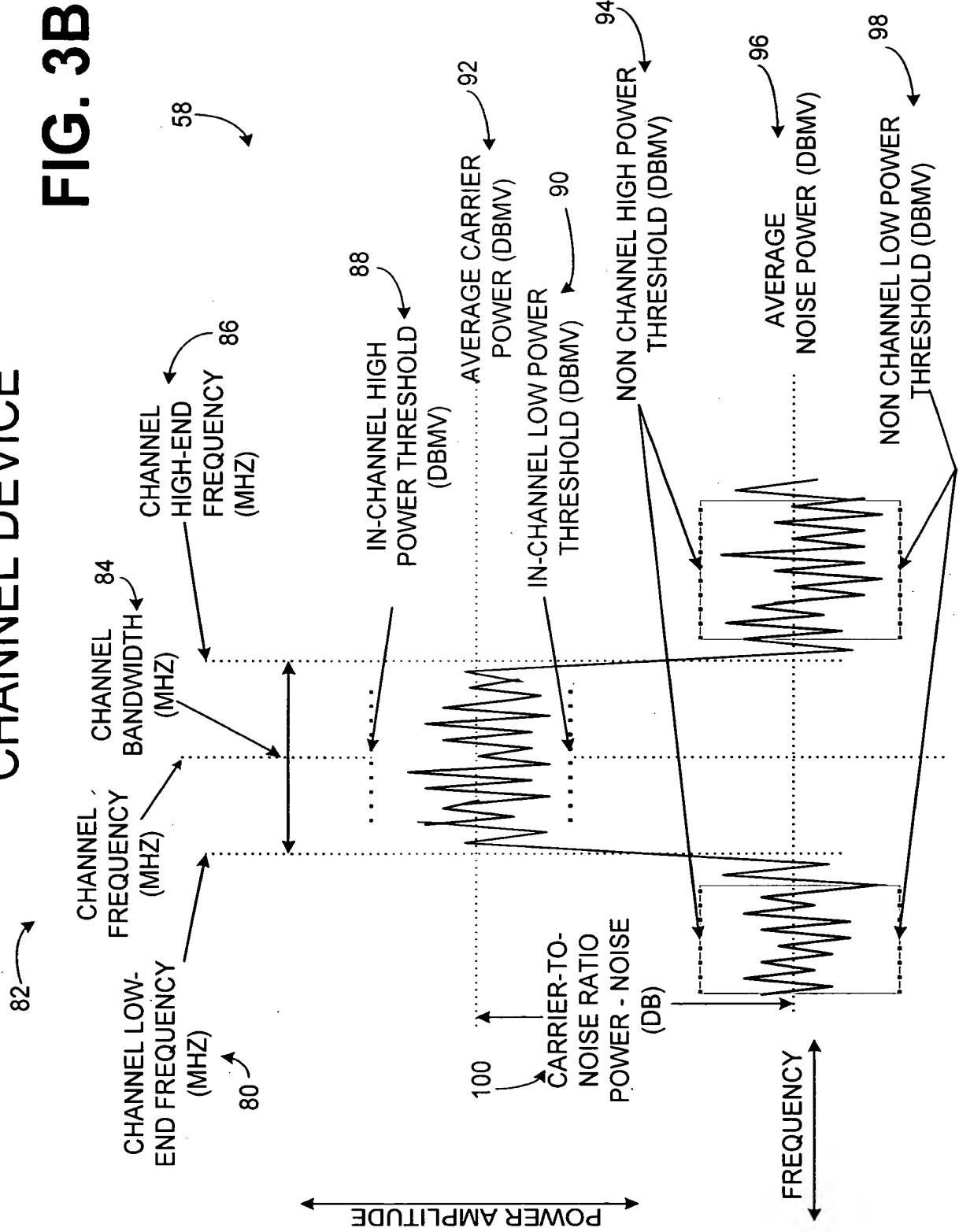


FIG. 3A

CHANNEL DEVICE

FIG. 3B



TEST PLAN

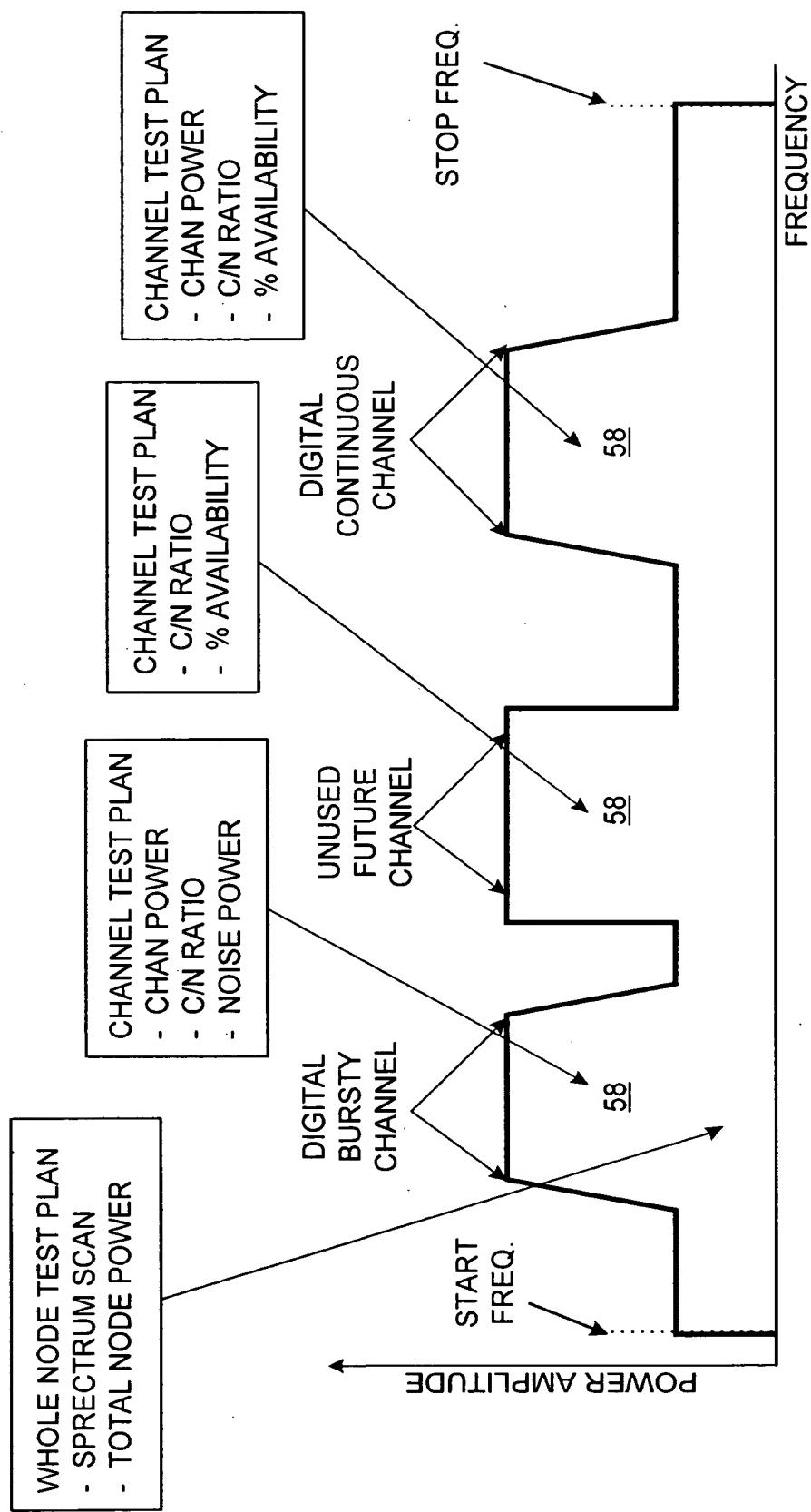
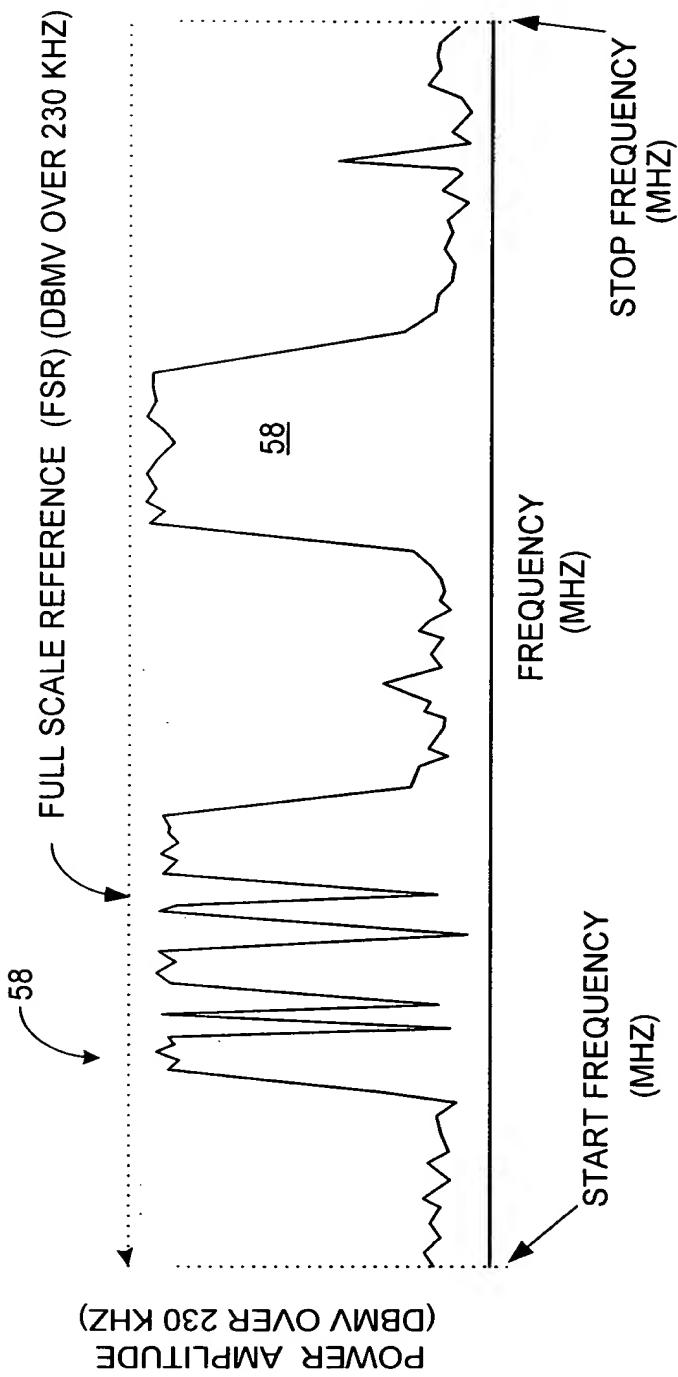


FIG. 3C

FIG. 3D

**SPECTRUM SCAN TEST
(WHOLE NODE)**

64a



SPECTRUM SCAN TEST (ALARM LIMITS)

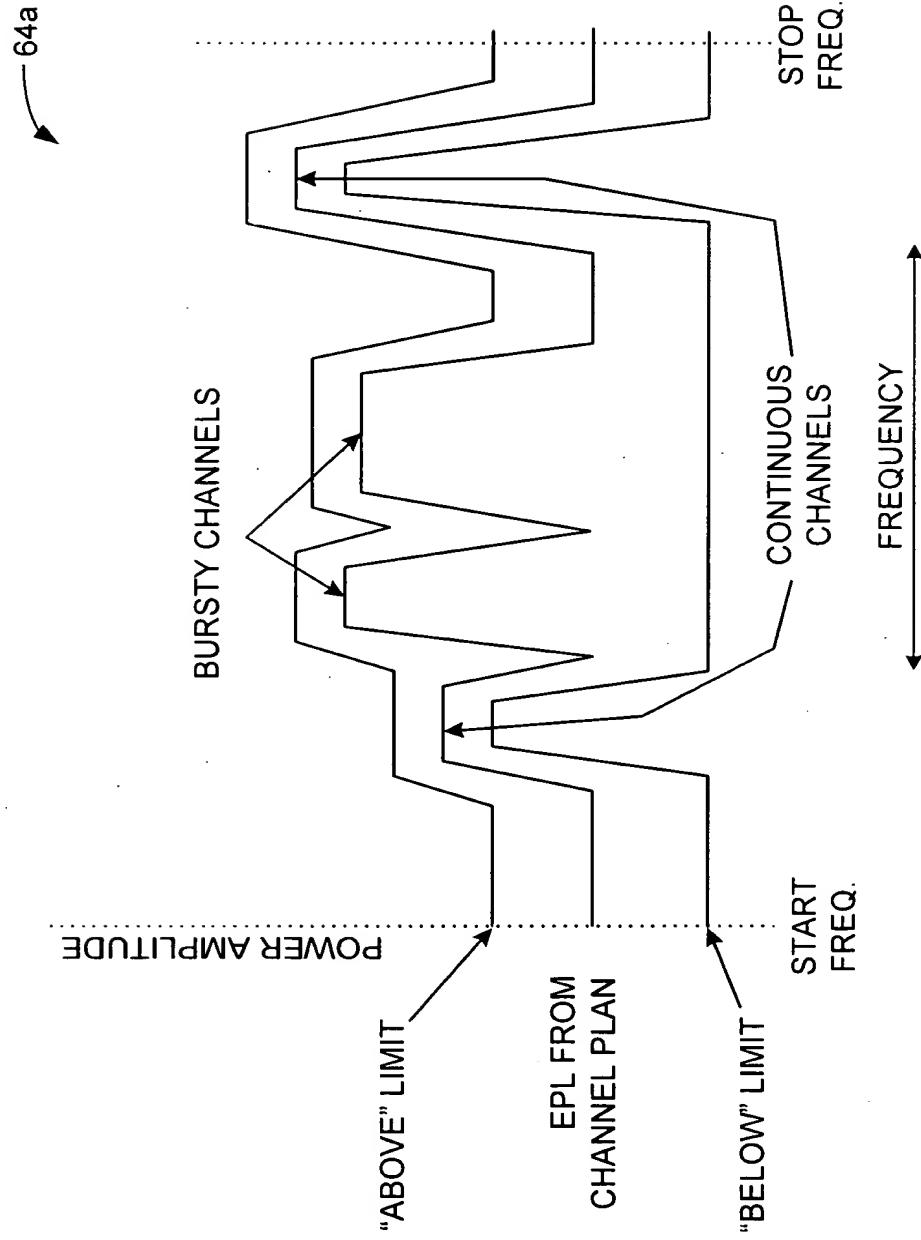


FIG. 3E

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TOTAL NODE POWER TEST (WHOLE NODE)

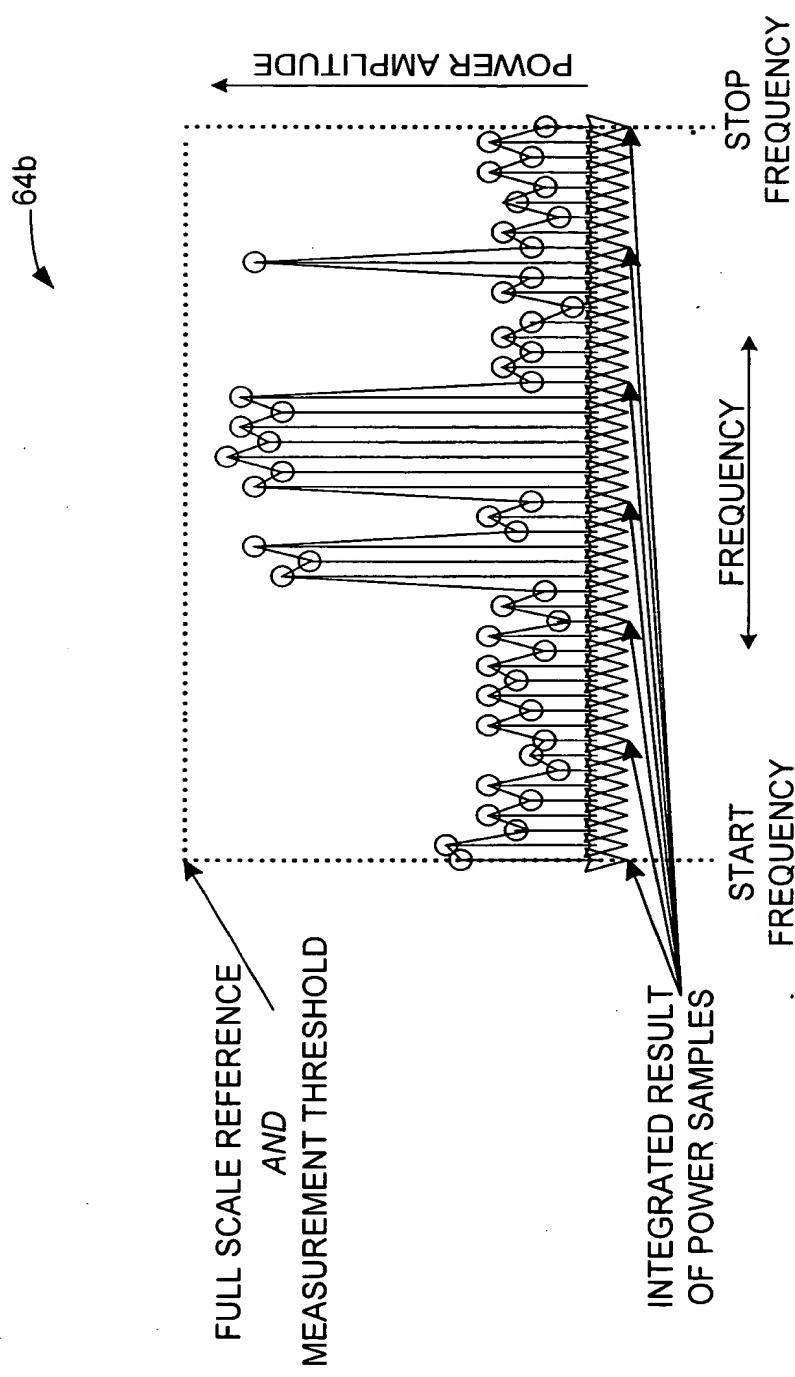


FIG. 3F

AVERAGE NOISE POWER TEST (CHANNEL)

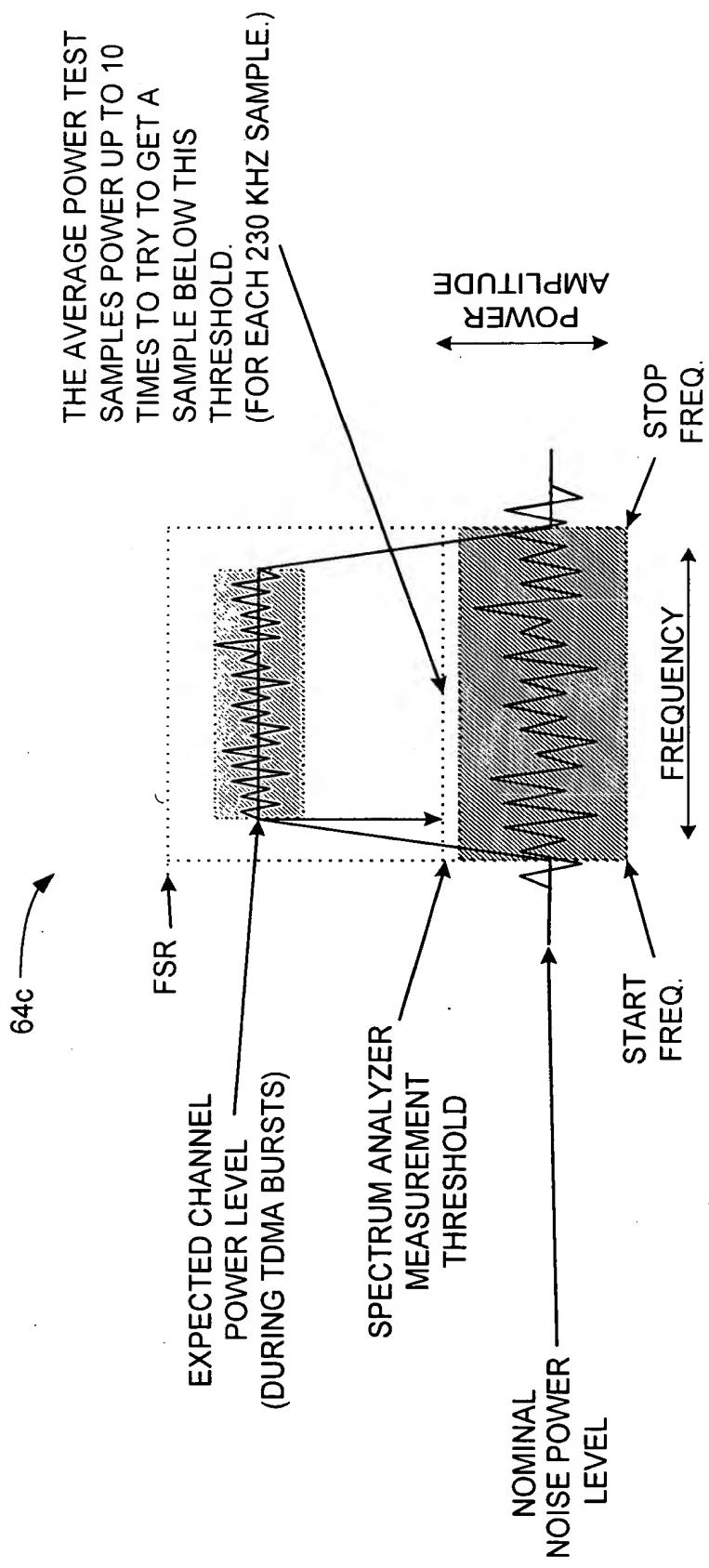


FIG. 3G

AVERAGE NOISE POWER TEST (ALARM LIMITS)

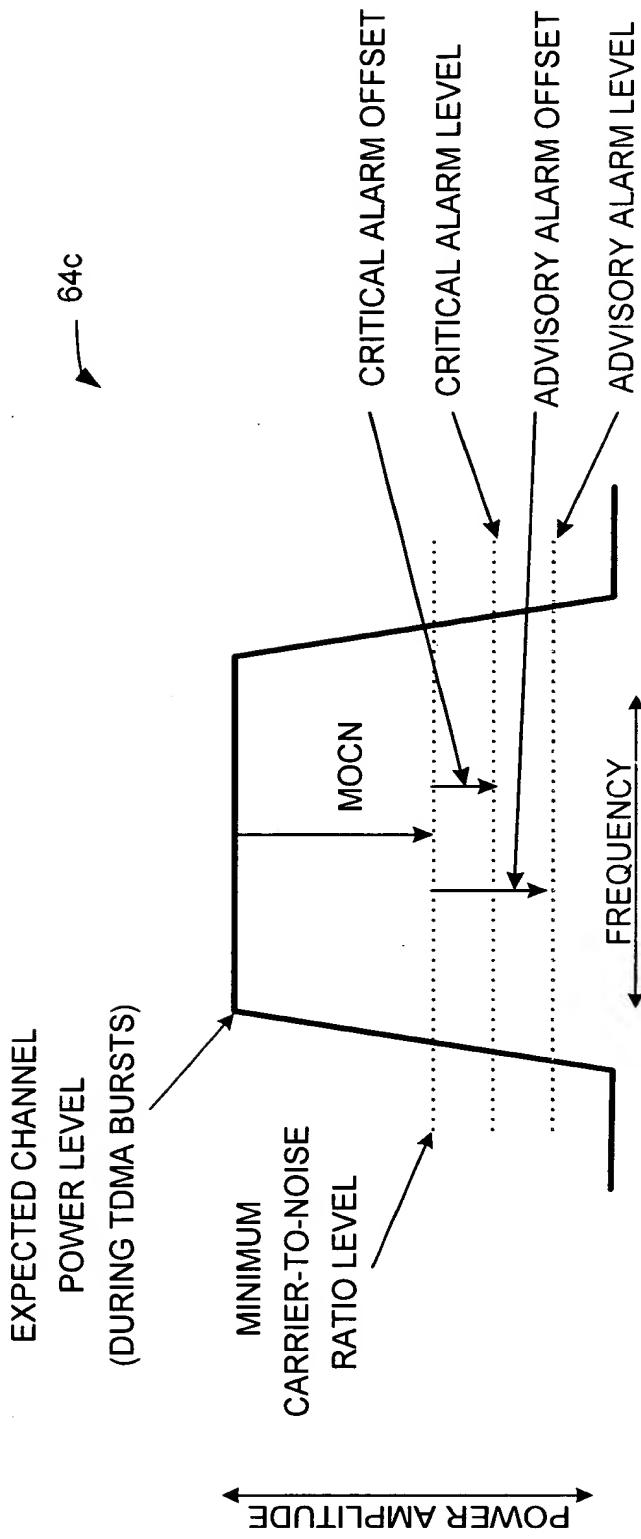


FIG. 3H

CHANNEL POWER TEST (CHANNEL)

64d

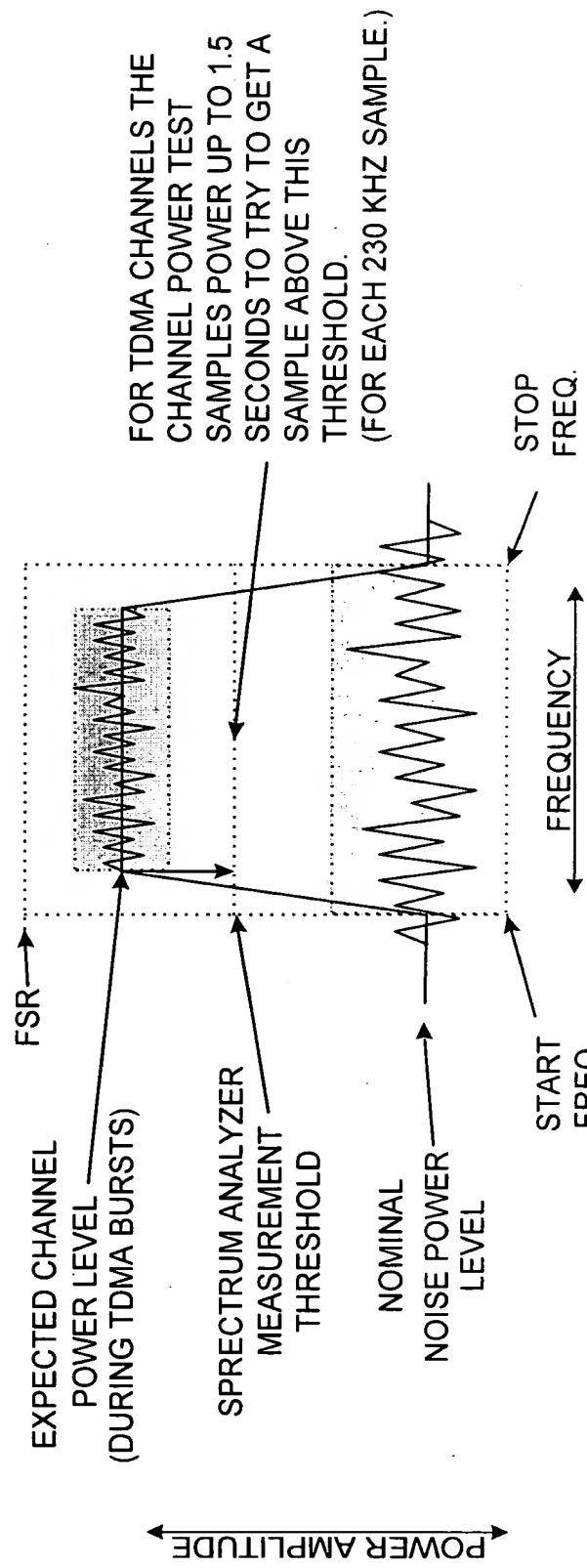


FIG. 3I

CHANNEL POWER TEST
(ALARM LIMITS)

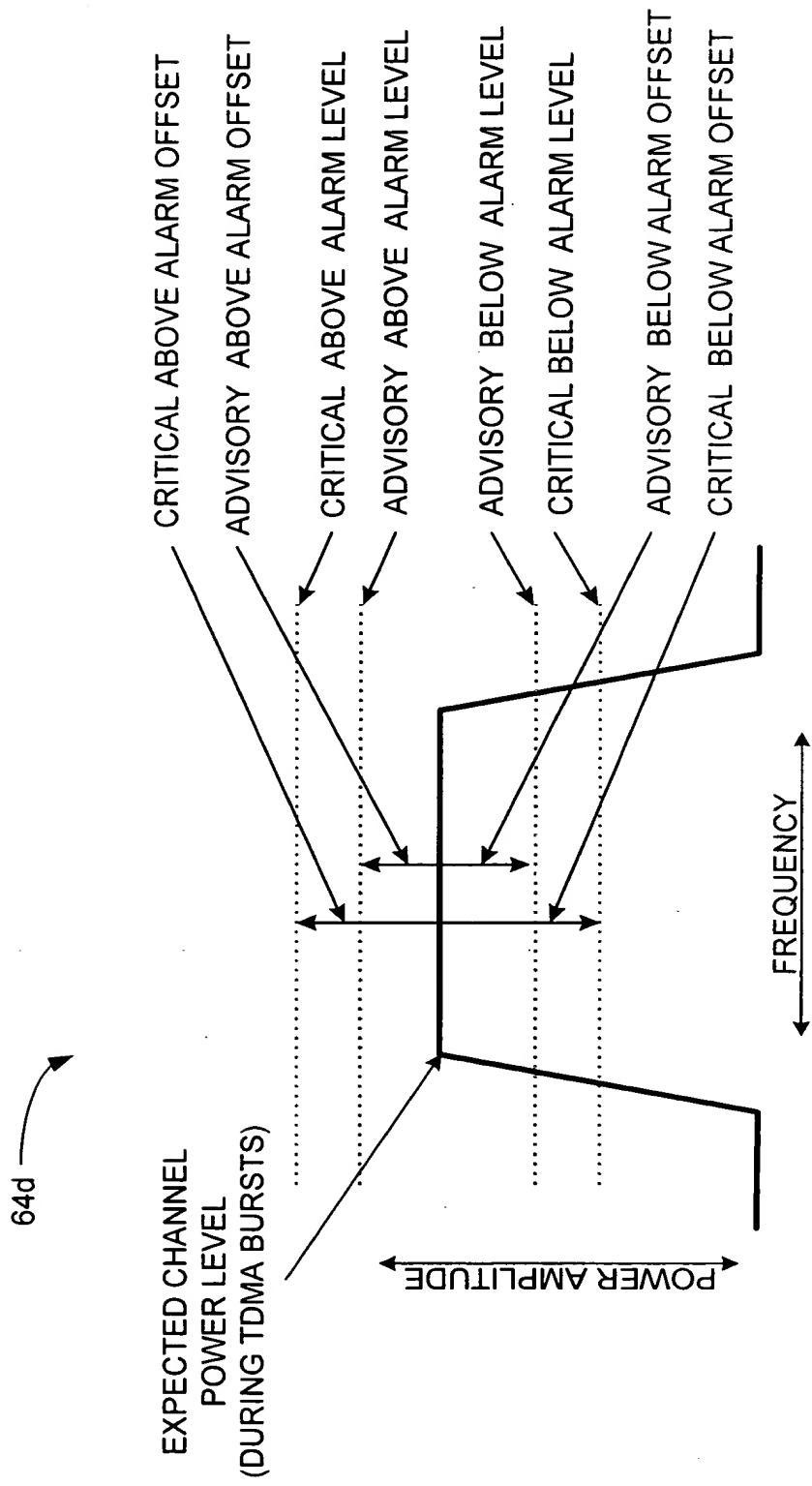


FIG. 3J

CHANNEL POWER TEST
(TDMA BURSTS)

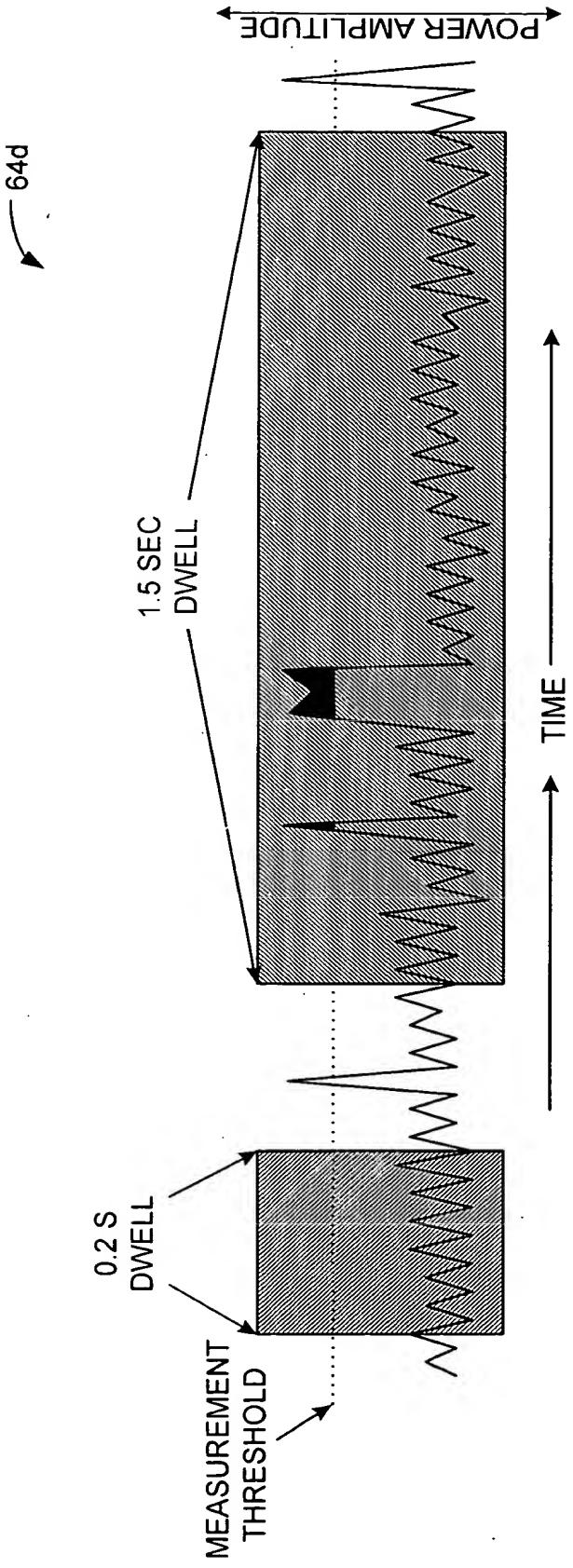


FIG. 3K

C/N TEST (CHANNEL)

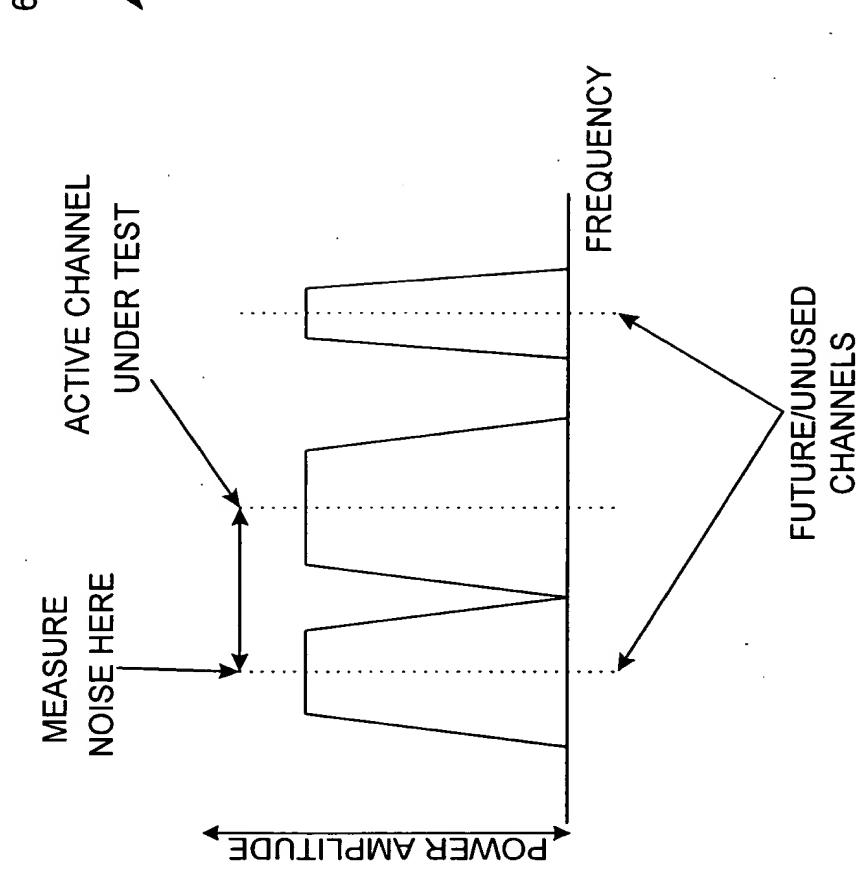


FIG. 3L

BURST COUNTER TEST (CHANNEL)

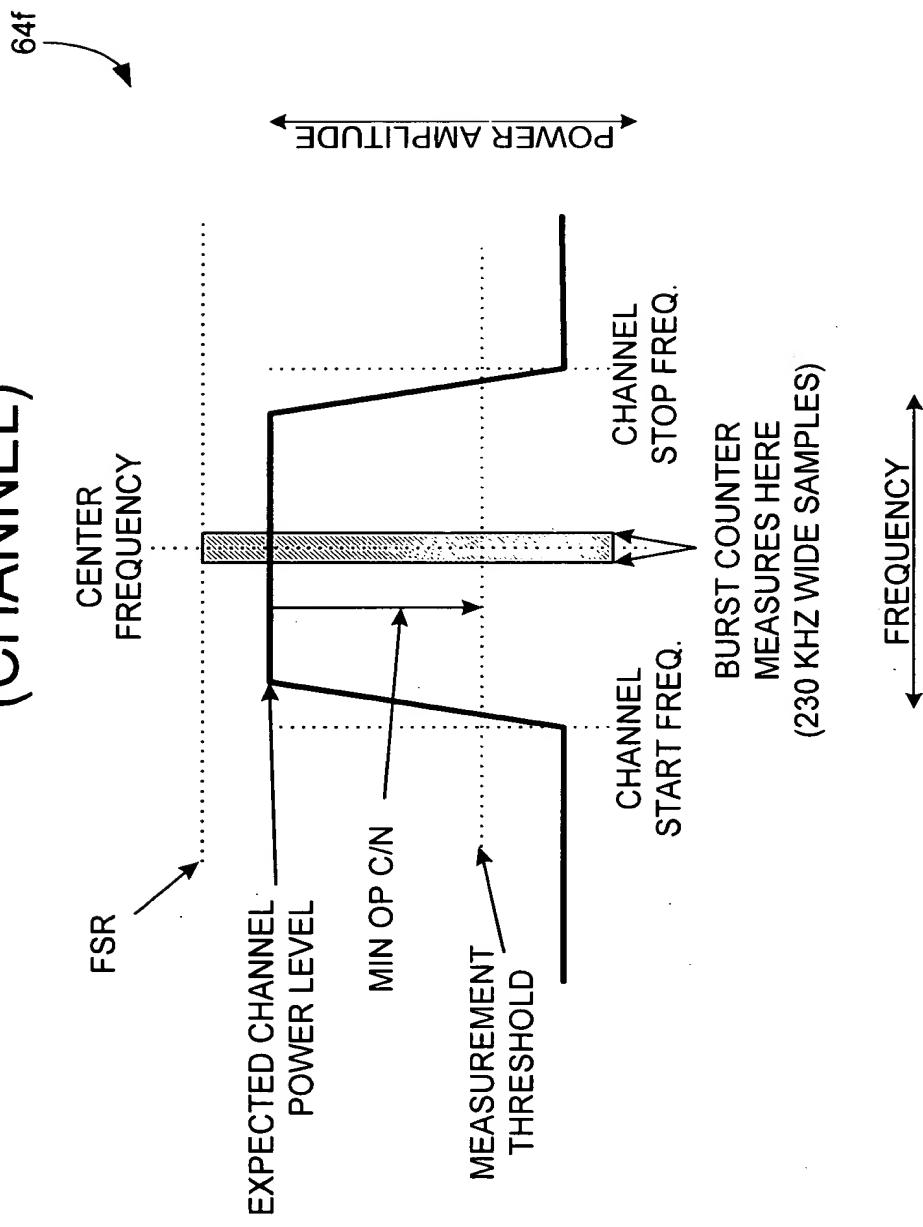


FIG. 3M

PERCENT AVAILABILITY TEST (CHANNEL)

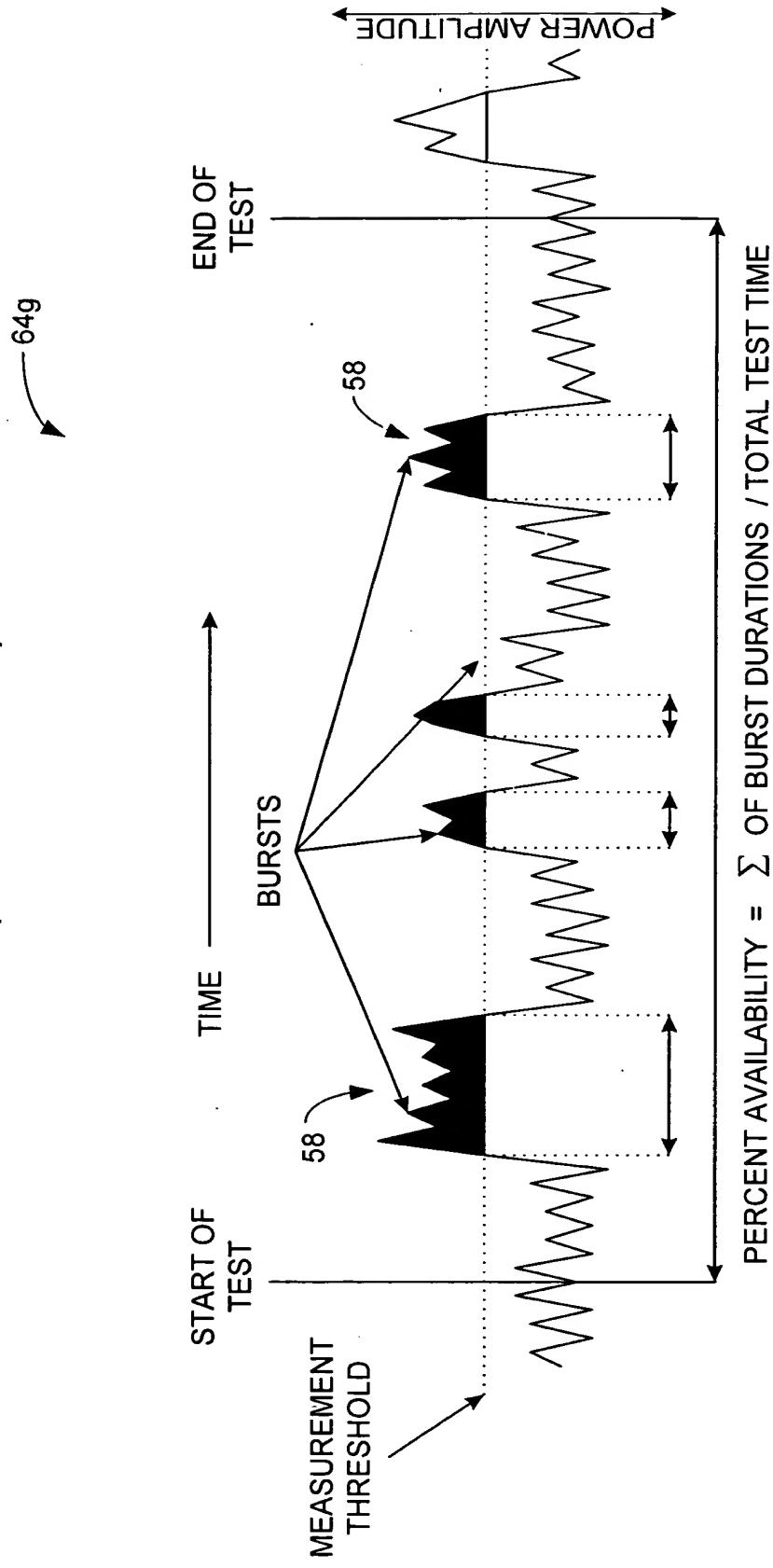


FIG. 3N

PERCENT AVAILABILITY TEST
(ACTIVE CHANNELS)

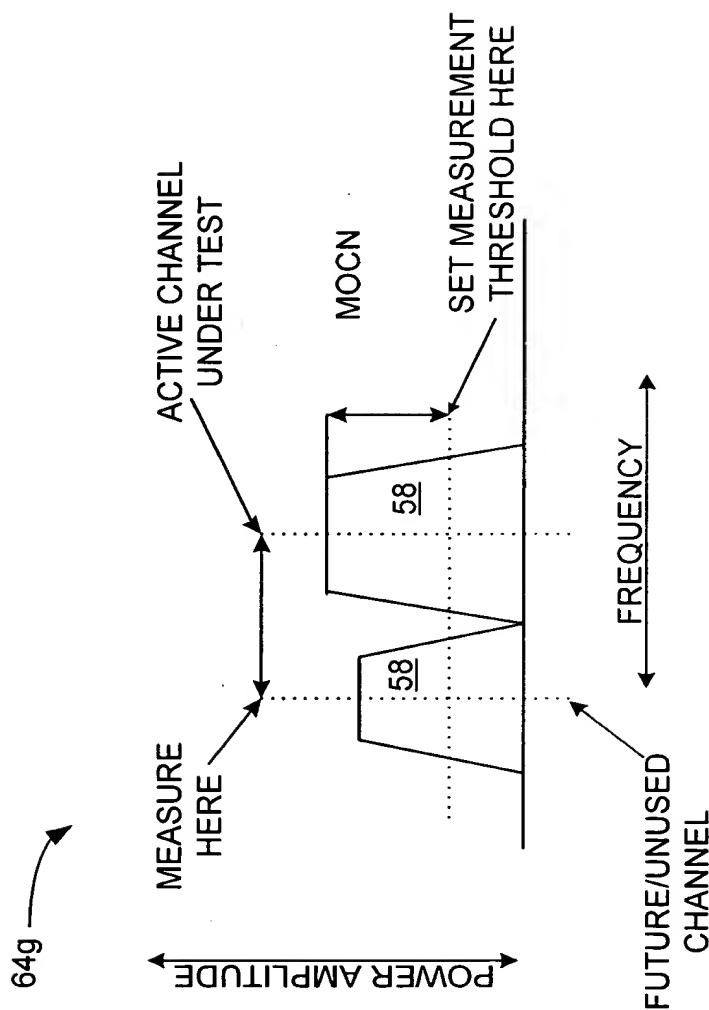


FIG. 30

FIG. 4

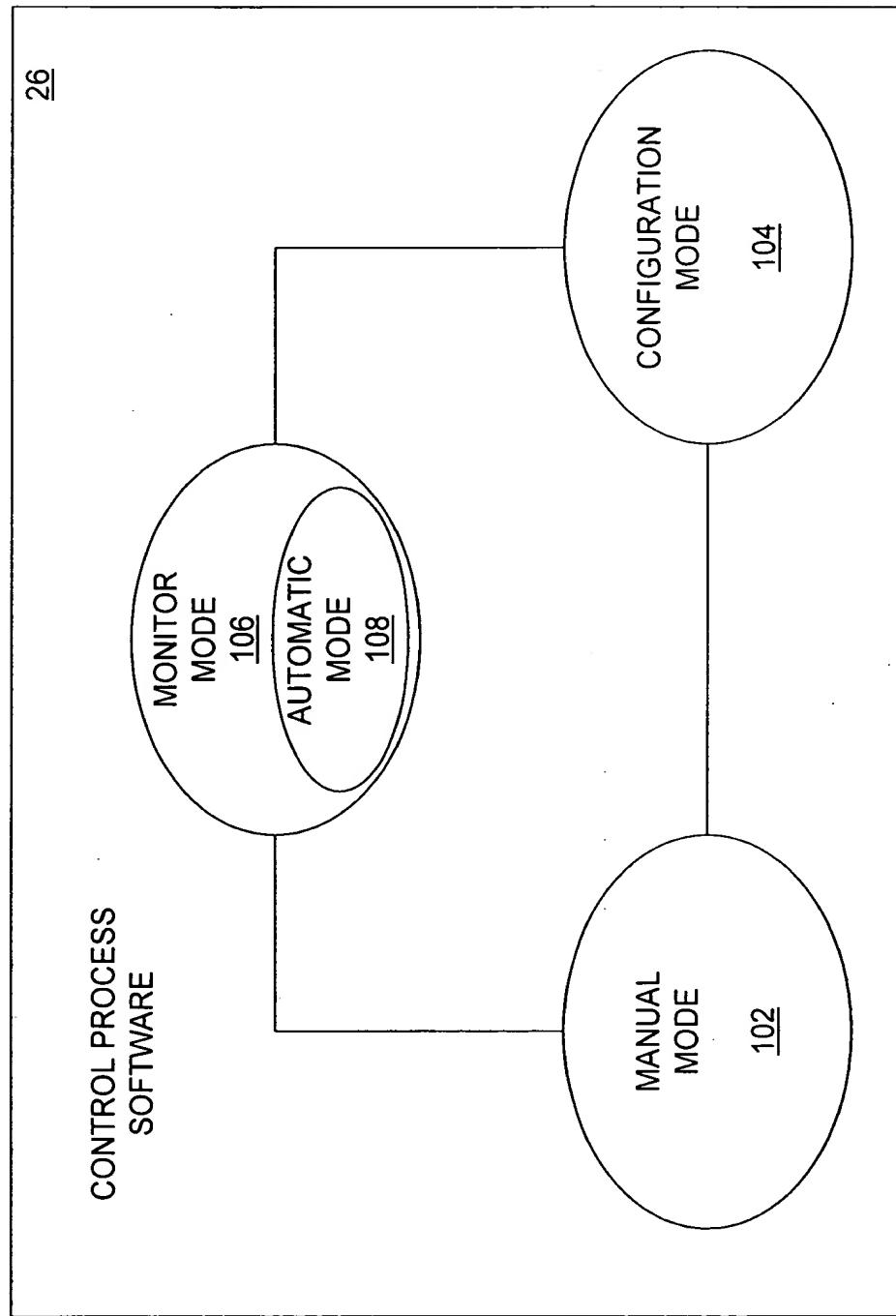
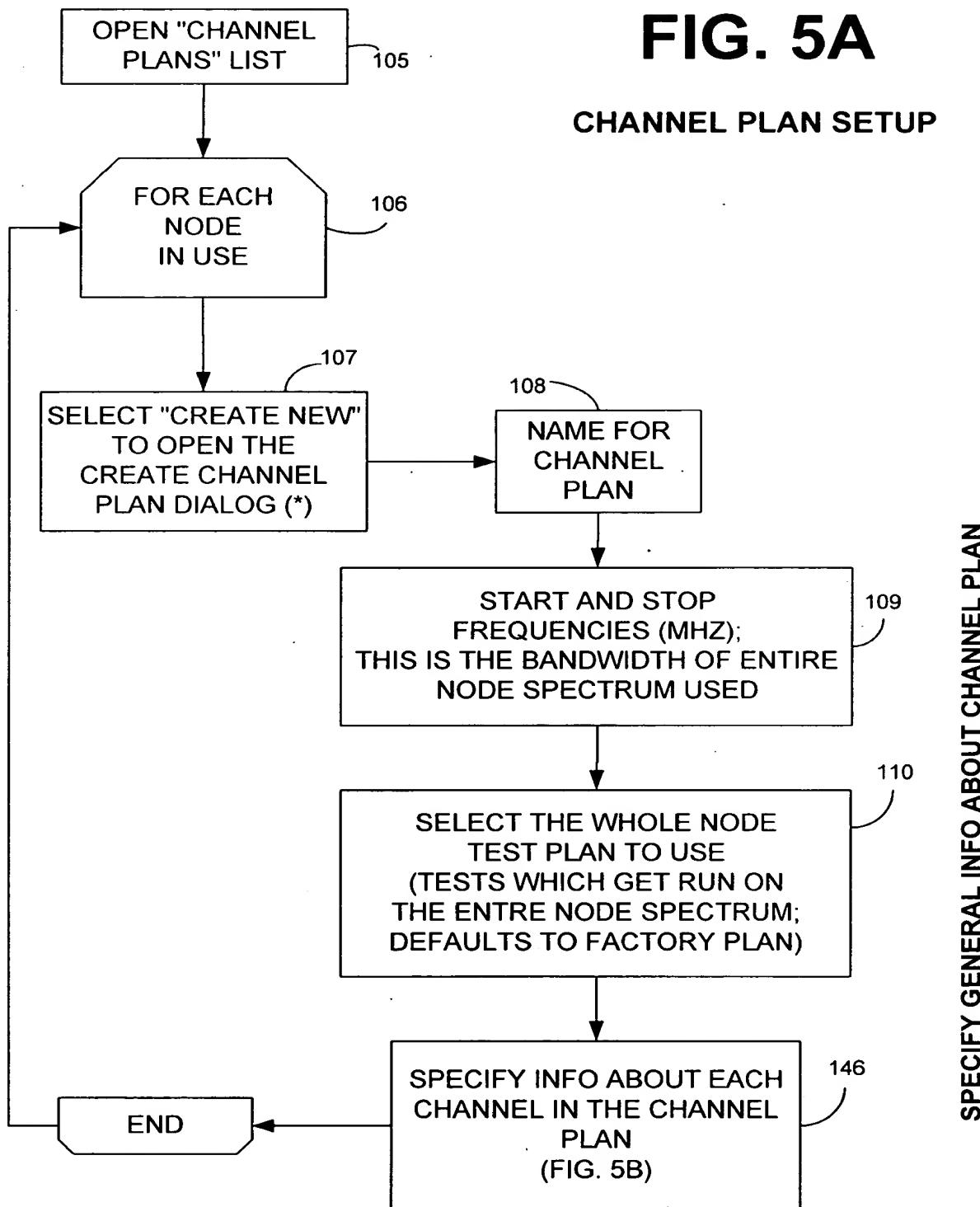


FIG. 5A

CHANNEL PLAN SETUP



SPECIFY GENERAL INFO ABOUT CHANNEL PLAN

FIG. 5B

CHANNEL PLAN SETUP (CONTINUED)

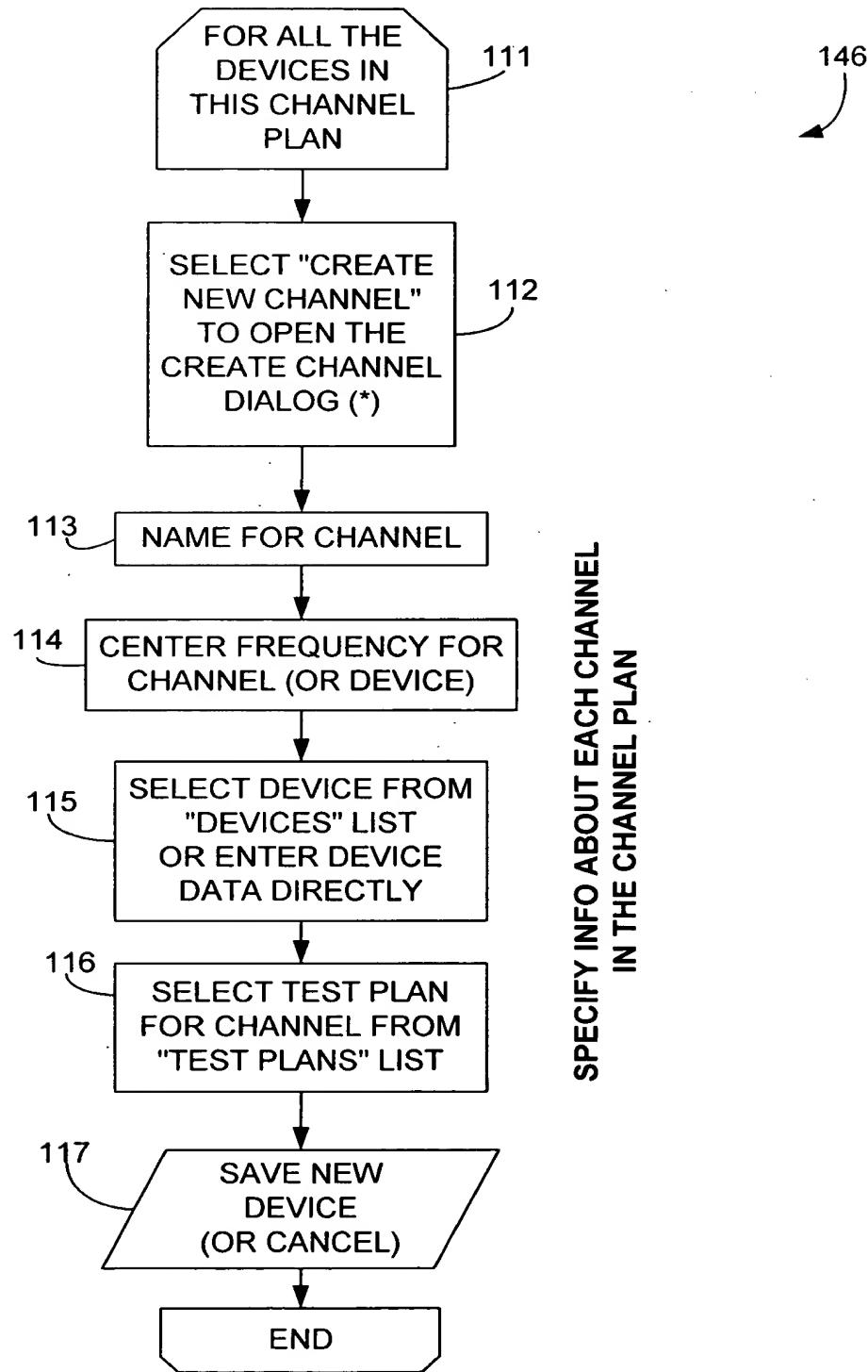
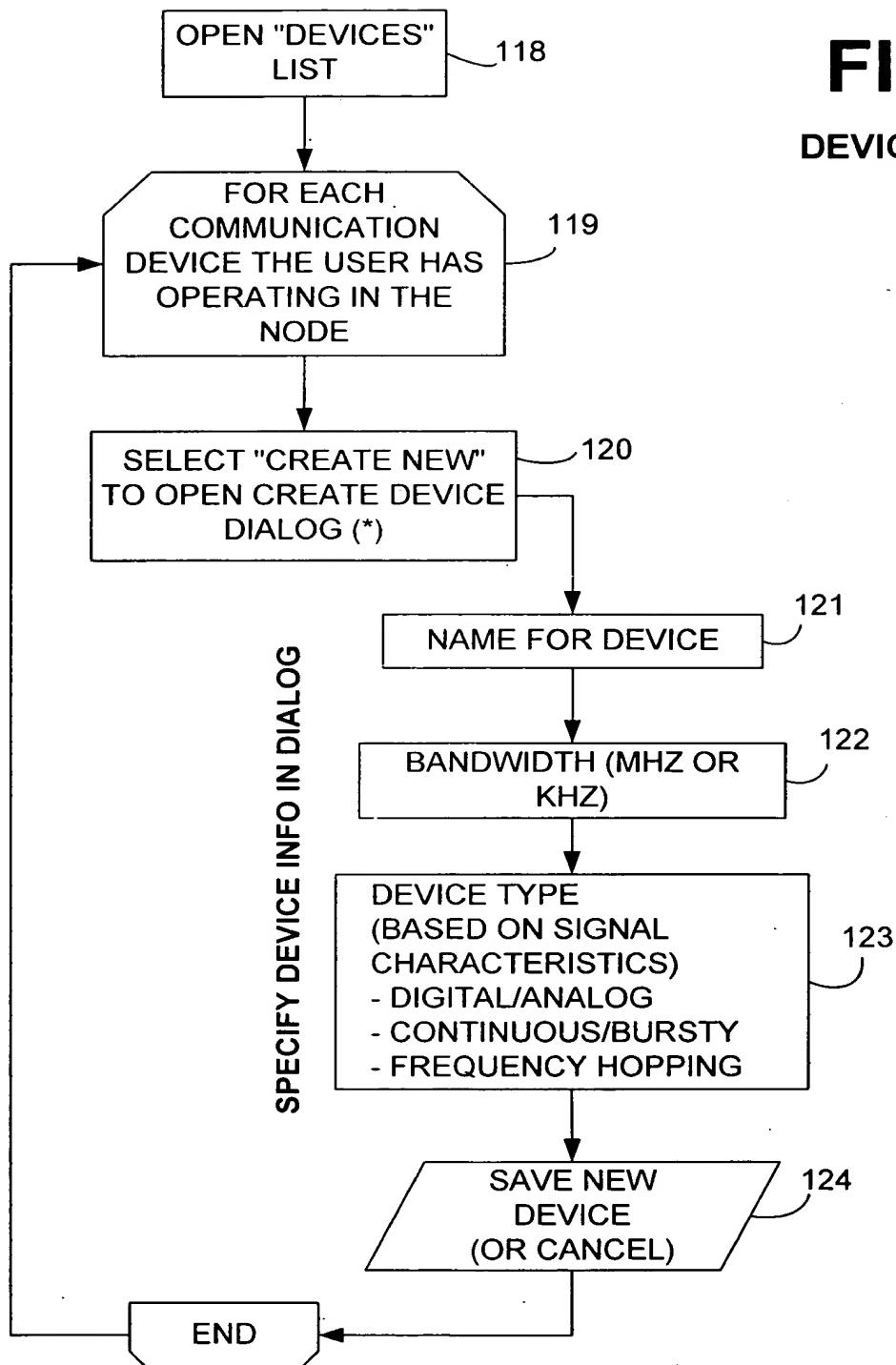


FIG. 6

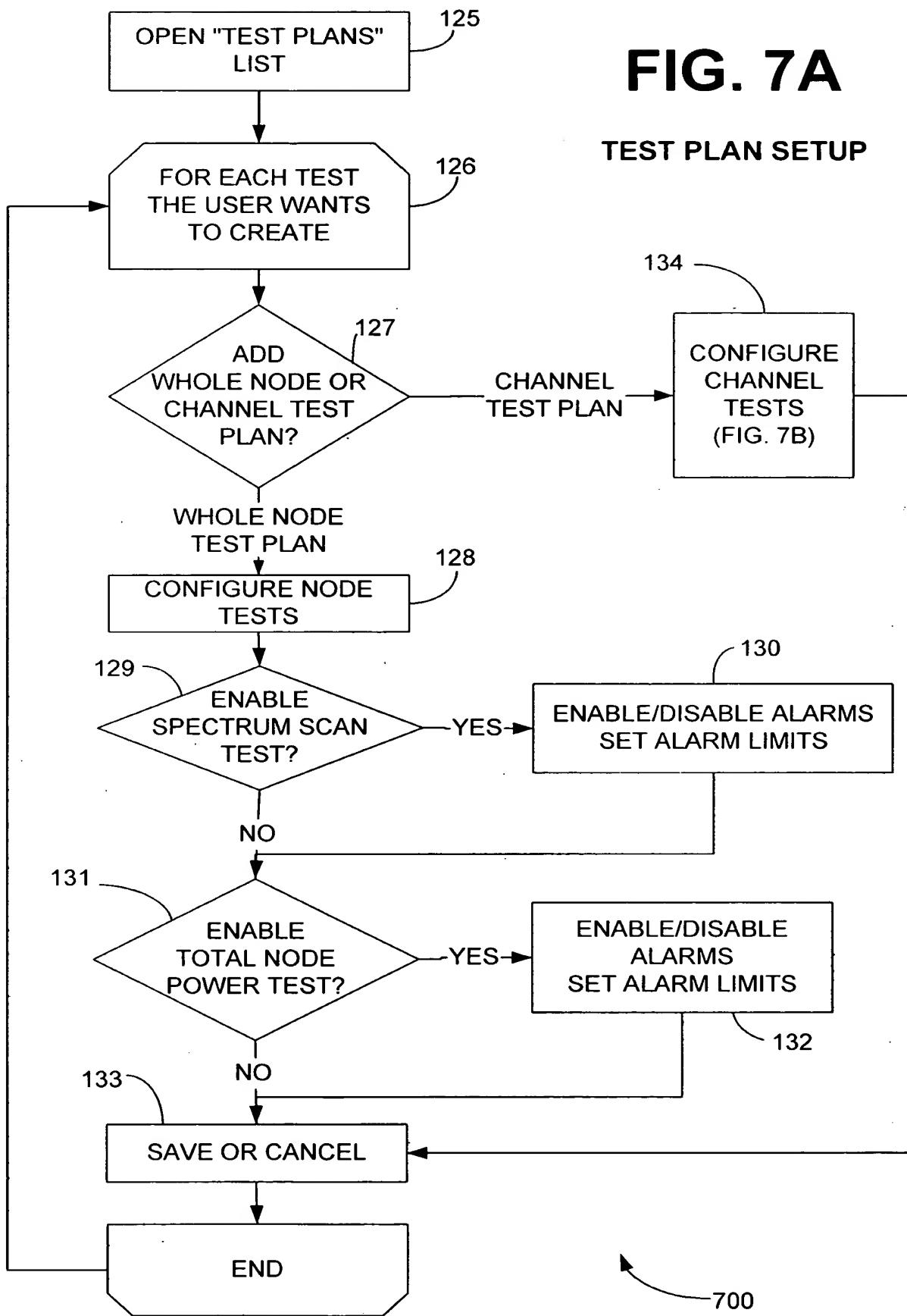
DEVICE SETUP



* NOTE: DEVICE LIST DIALOG ALSO
ALLOWS USER TO EDIT OR DELETE
DEVICES.

FIG. 7A

TEST PLAN SETUP



TEST PLAN SETUP (CONTINUED)

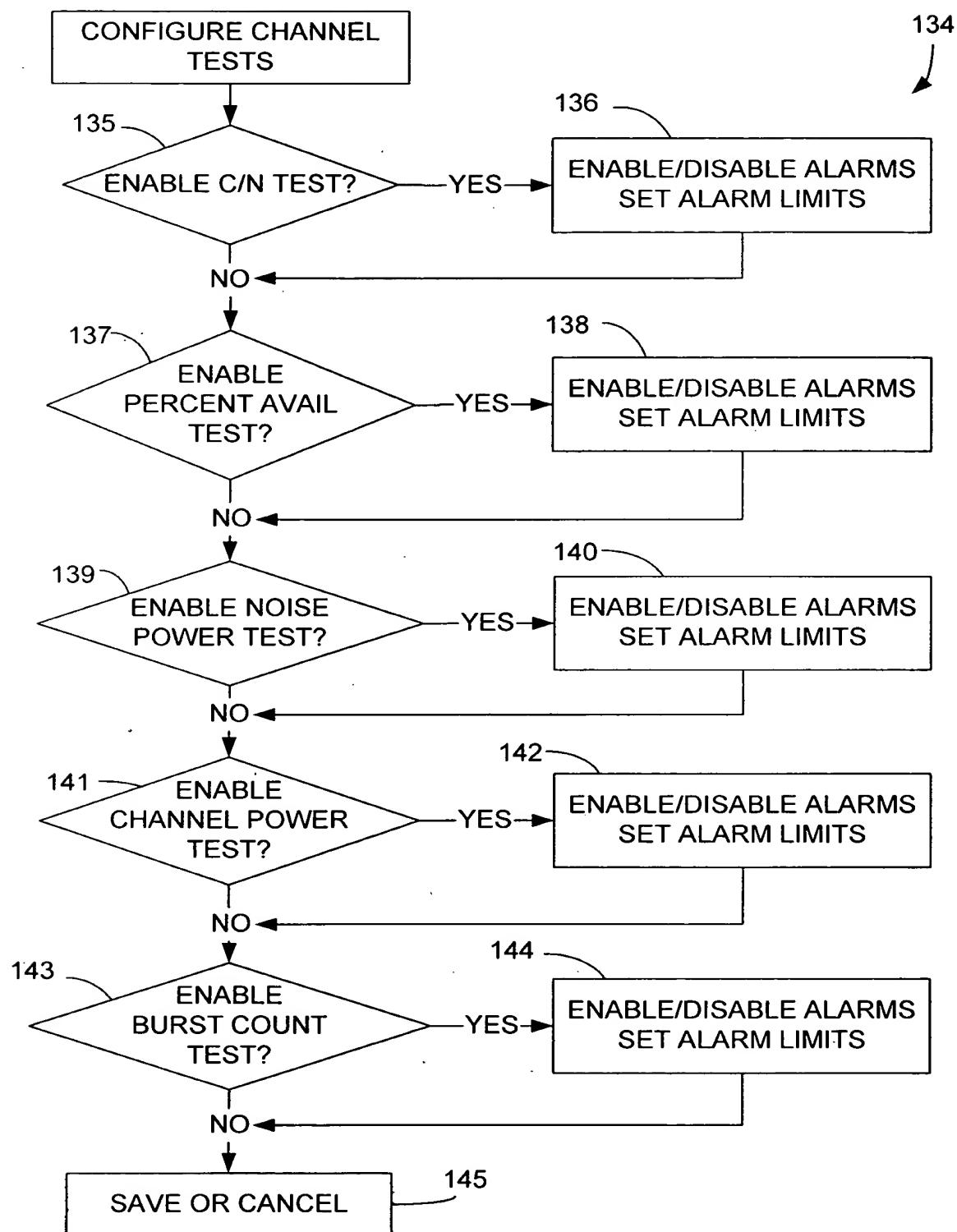


FIG. 7B

AUTOMATIC MODE
(FIRST EMBODIMENT; EMPLOYS ROUND ROBIN ALGORITHM)

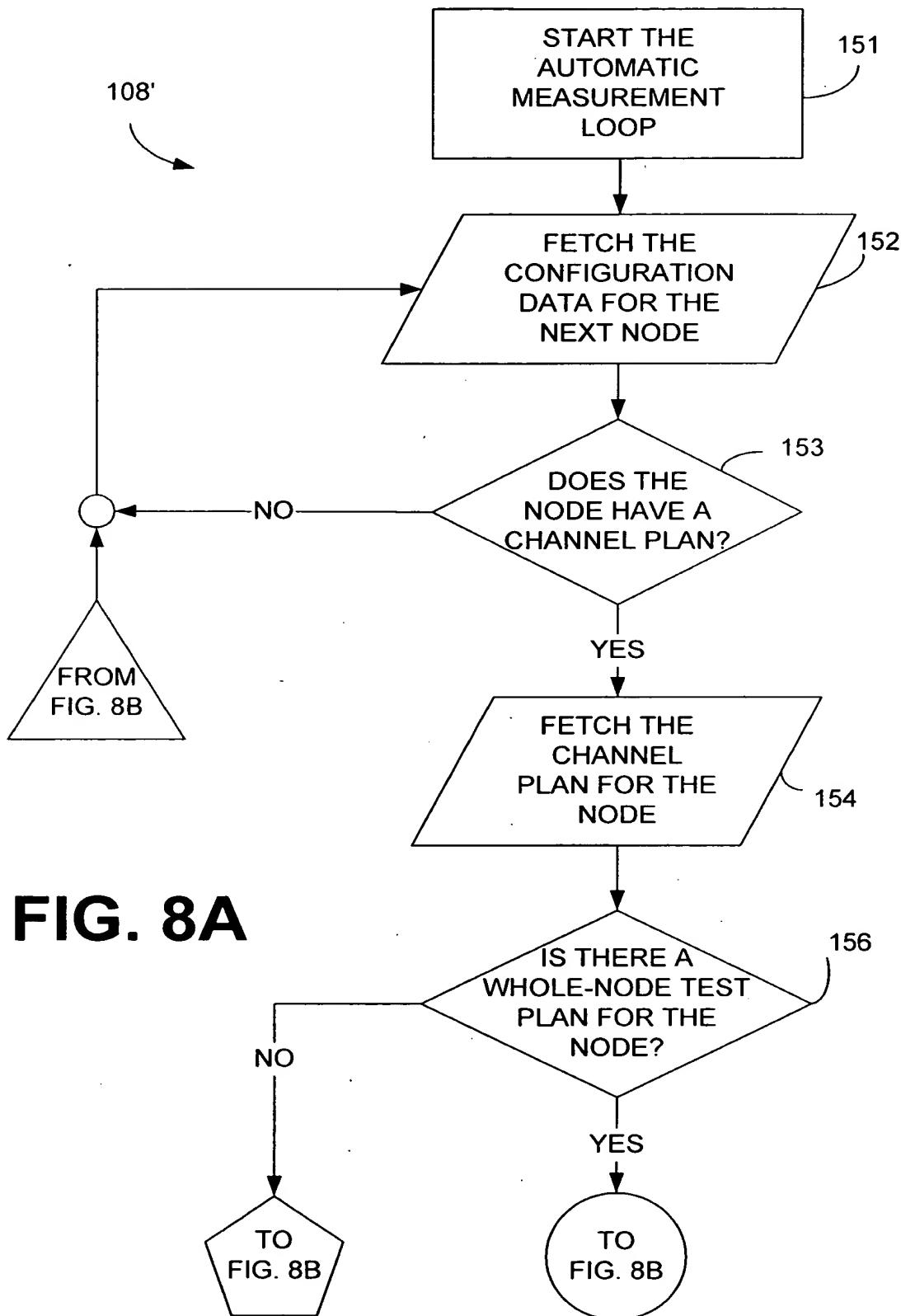


FIG. 8A

**AUTOMATIC MODE
(FIRST EMBODIMENT -
CONTINUED)**

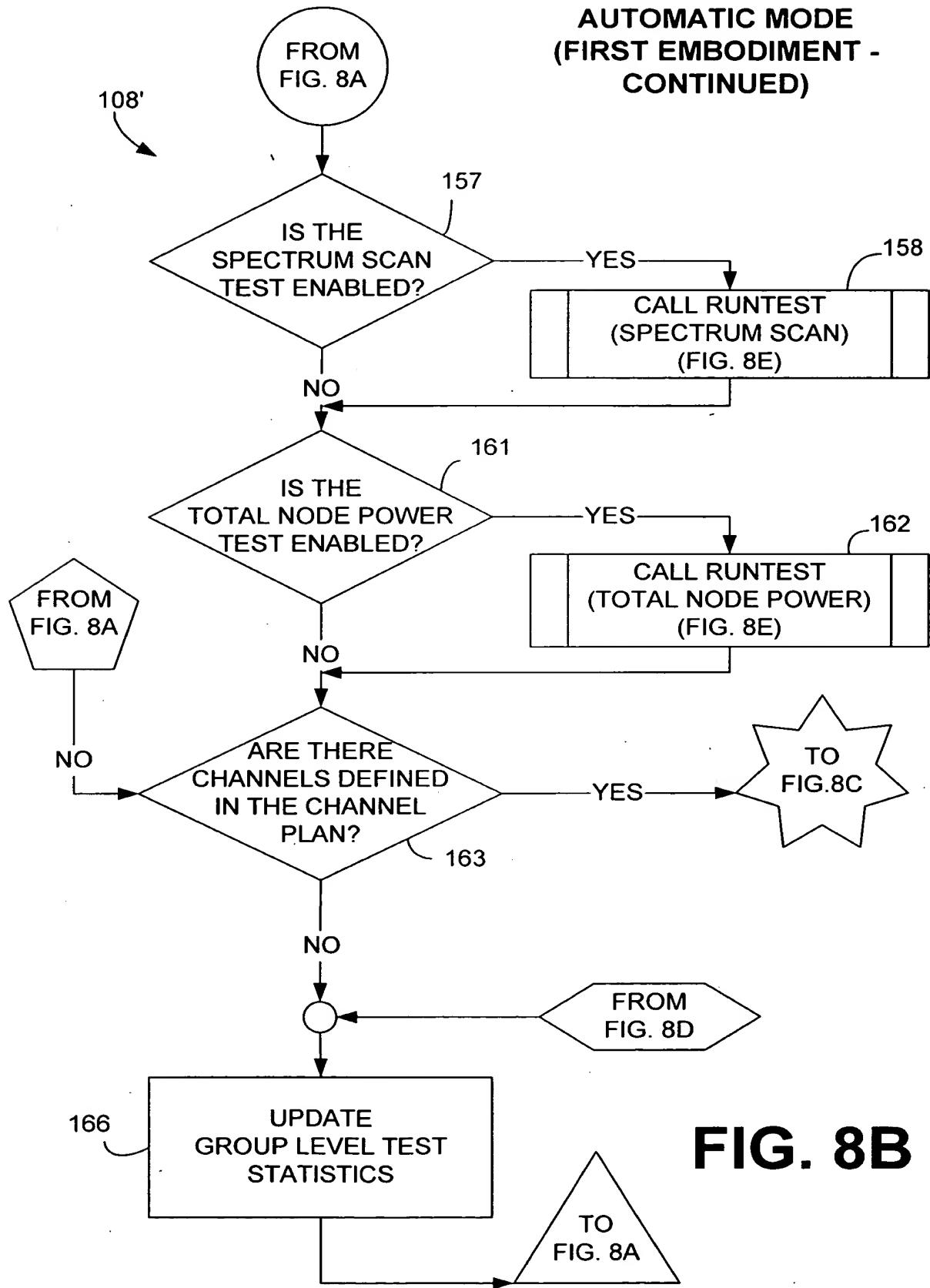


FIG. 8B

**AUTOMATIC MODE
(FIRST EMBODIMENT - CONTINUED)**

FIG. 8C

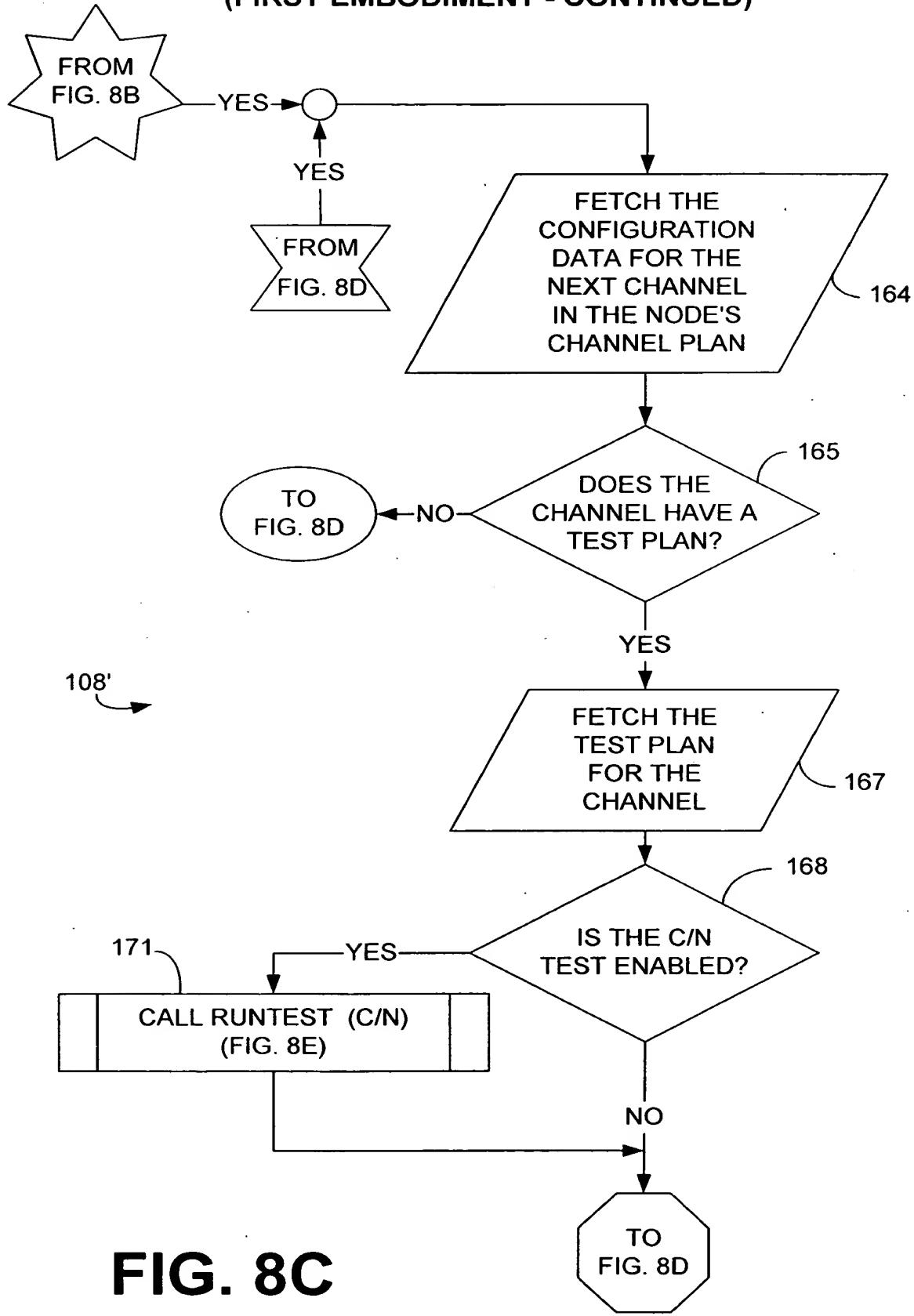
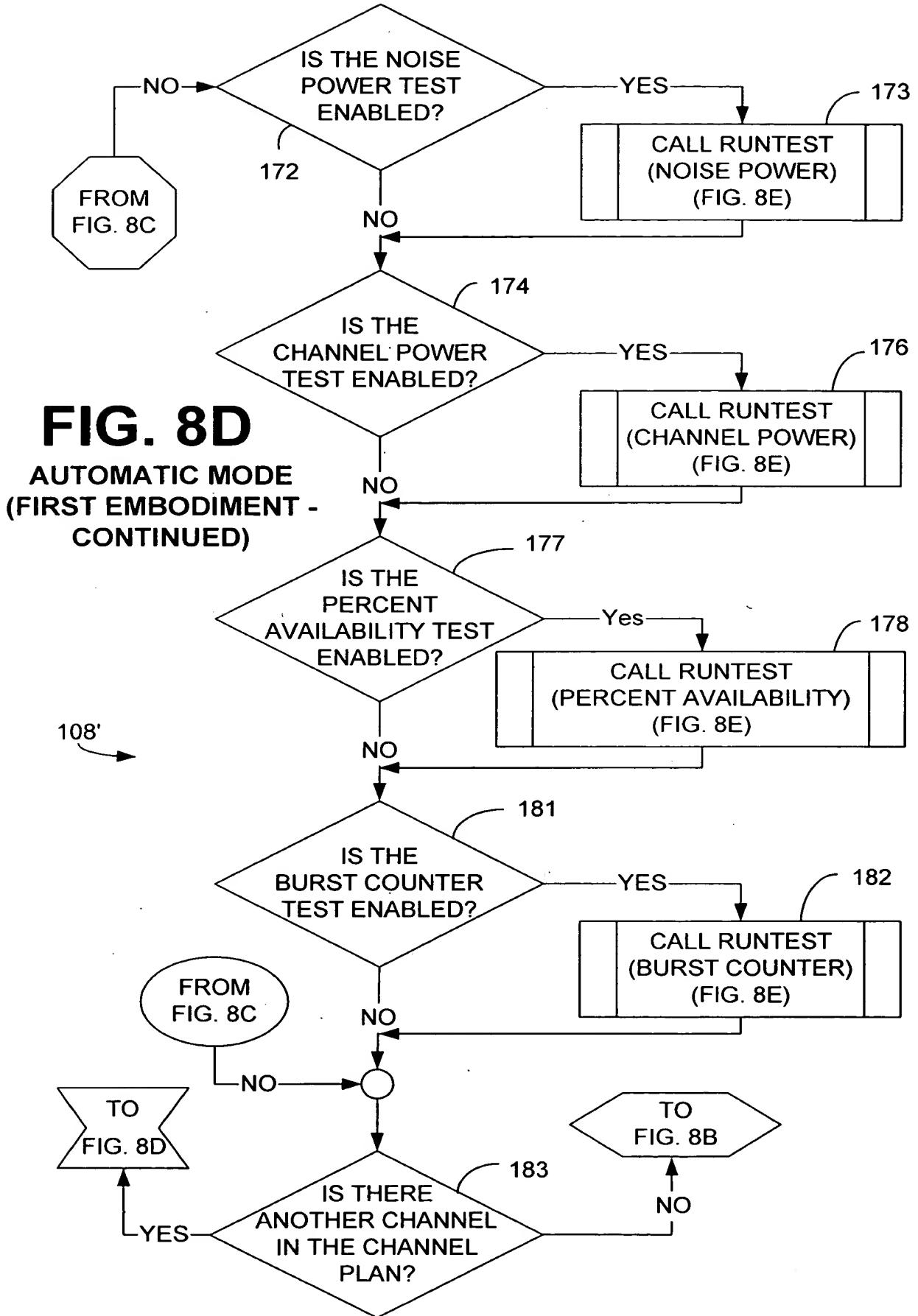


FIG. 8C



AUTOMATIC MODE
(FIRST EMBODIMENT - CONTINUED)

EDDIE F. GOODMAN

RUNTEST SUBROUTINE

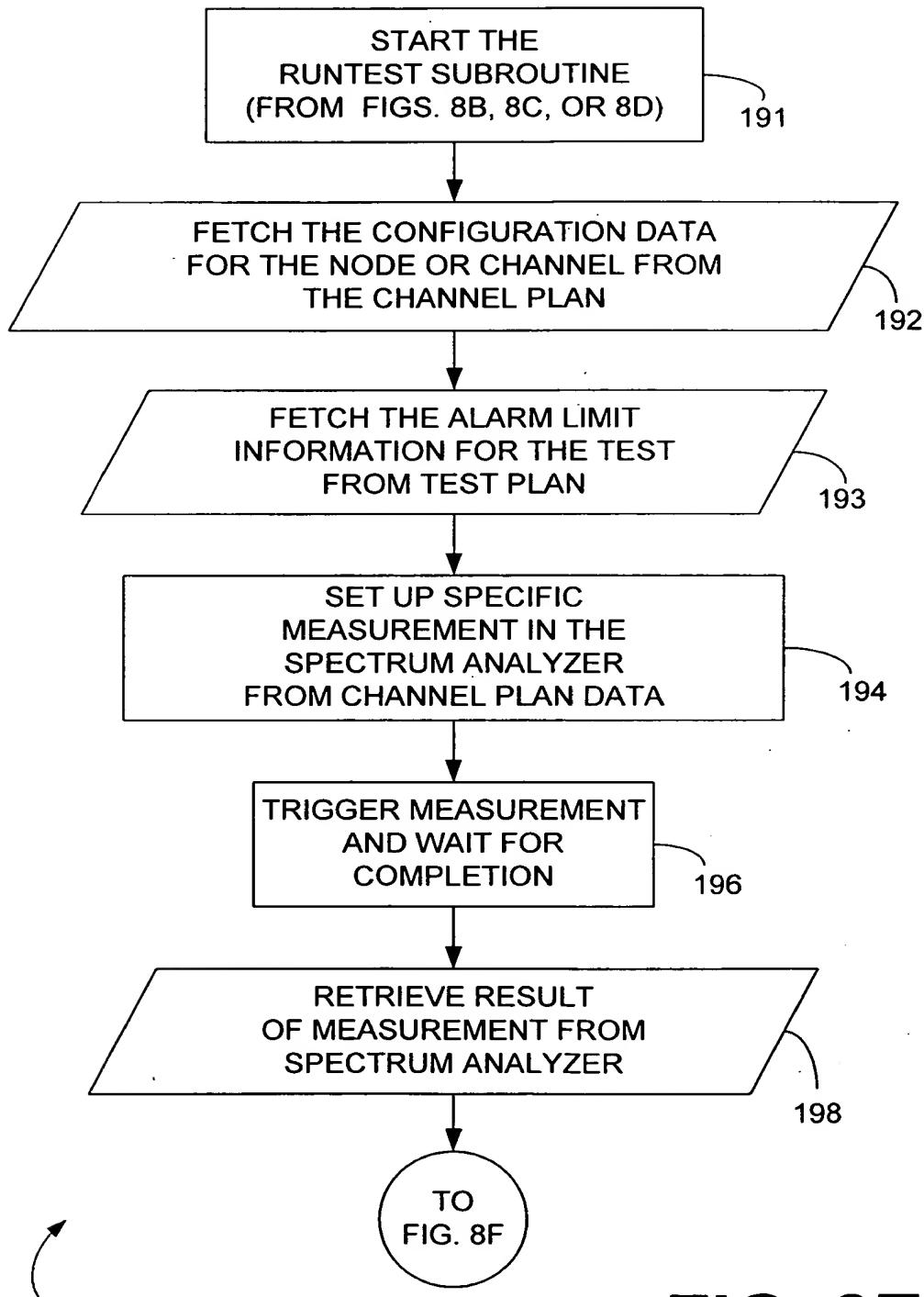


FIG. 8E

**AUTOMATIC MODE
(FIRST EMBODIMENT - CONTINUED)**

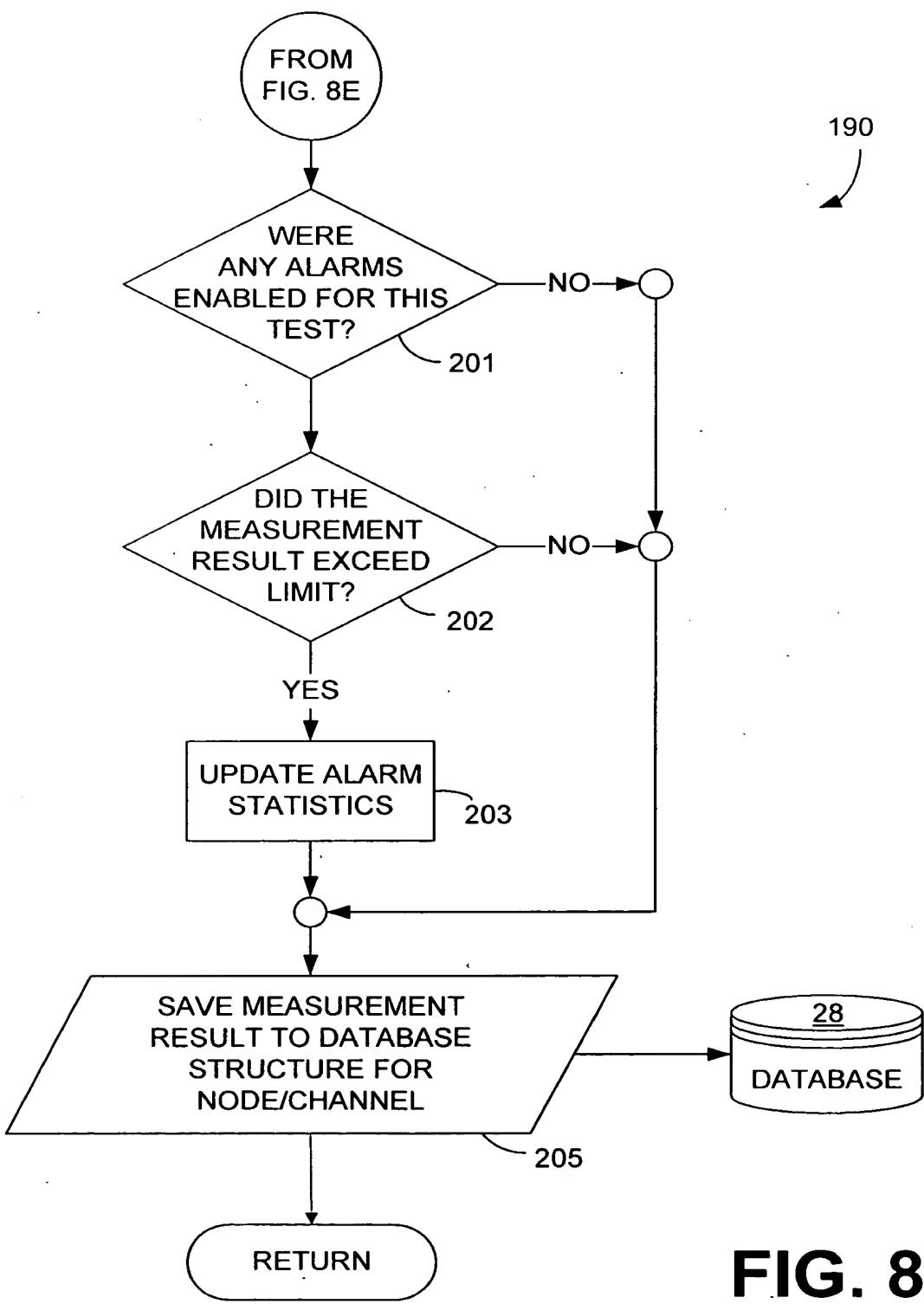


FIG. 8F

**AUTOMATIC MODE
(SECOND EMBODIMENT; EMPLOYS SMART
SCANNING ALGORITHM)**

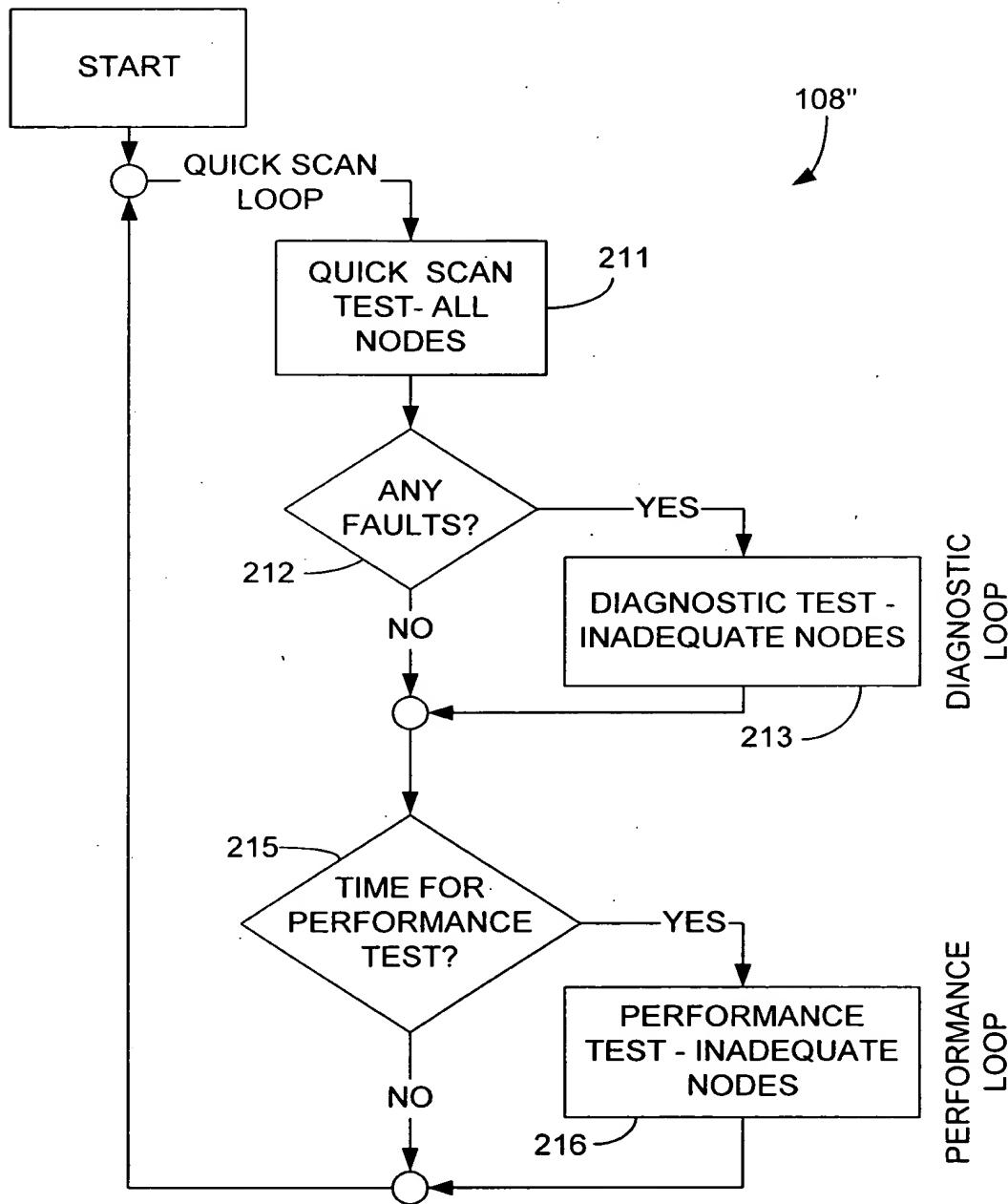


FIG. 9A

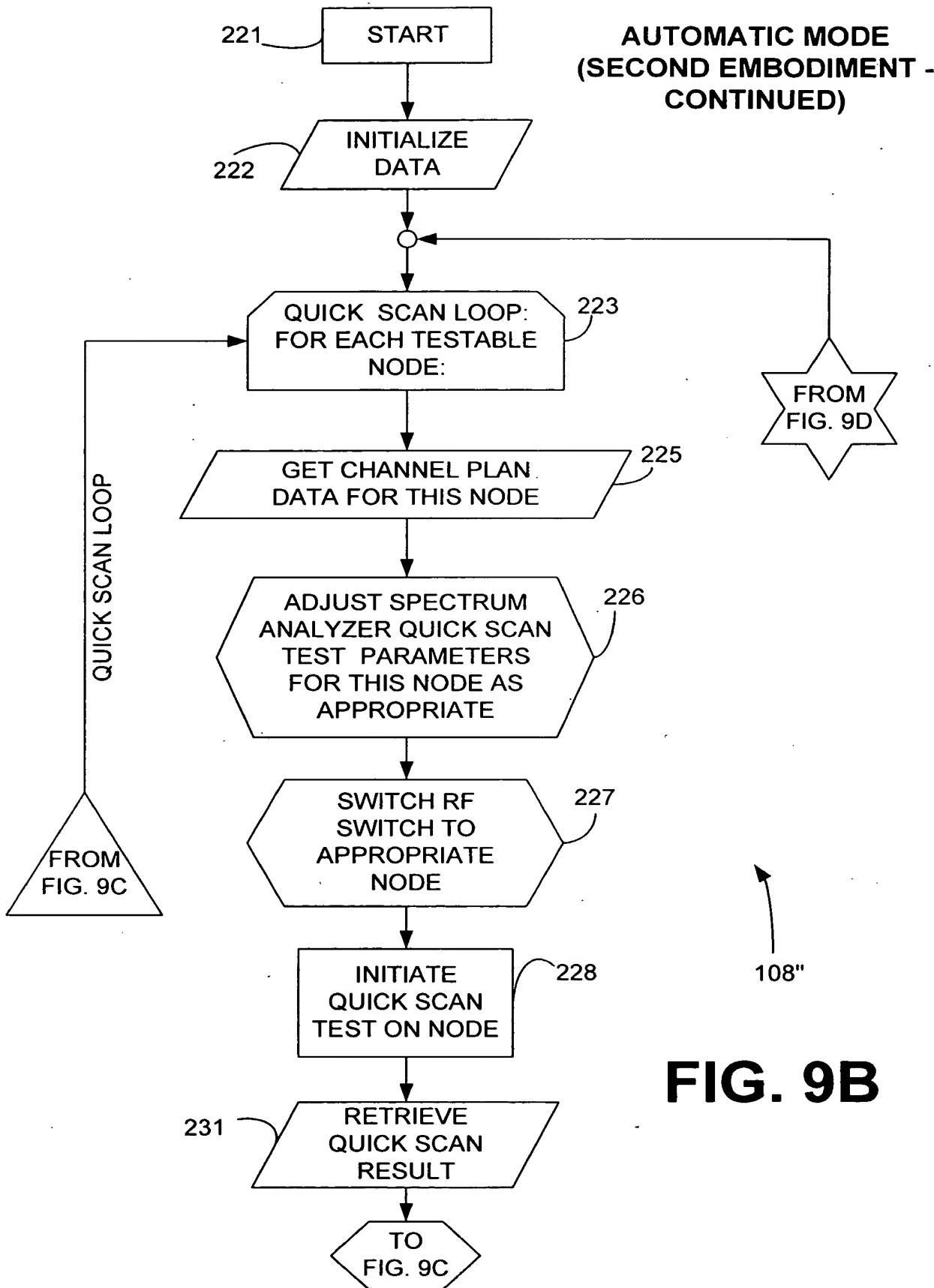
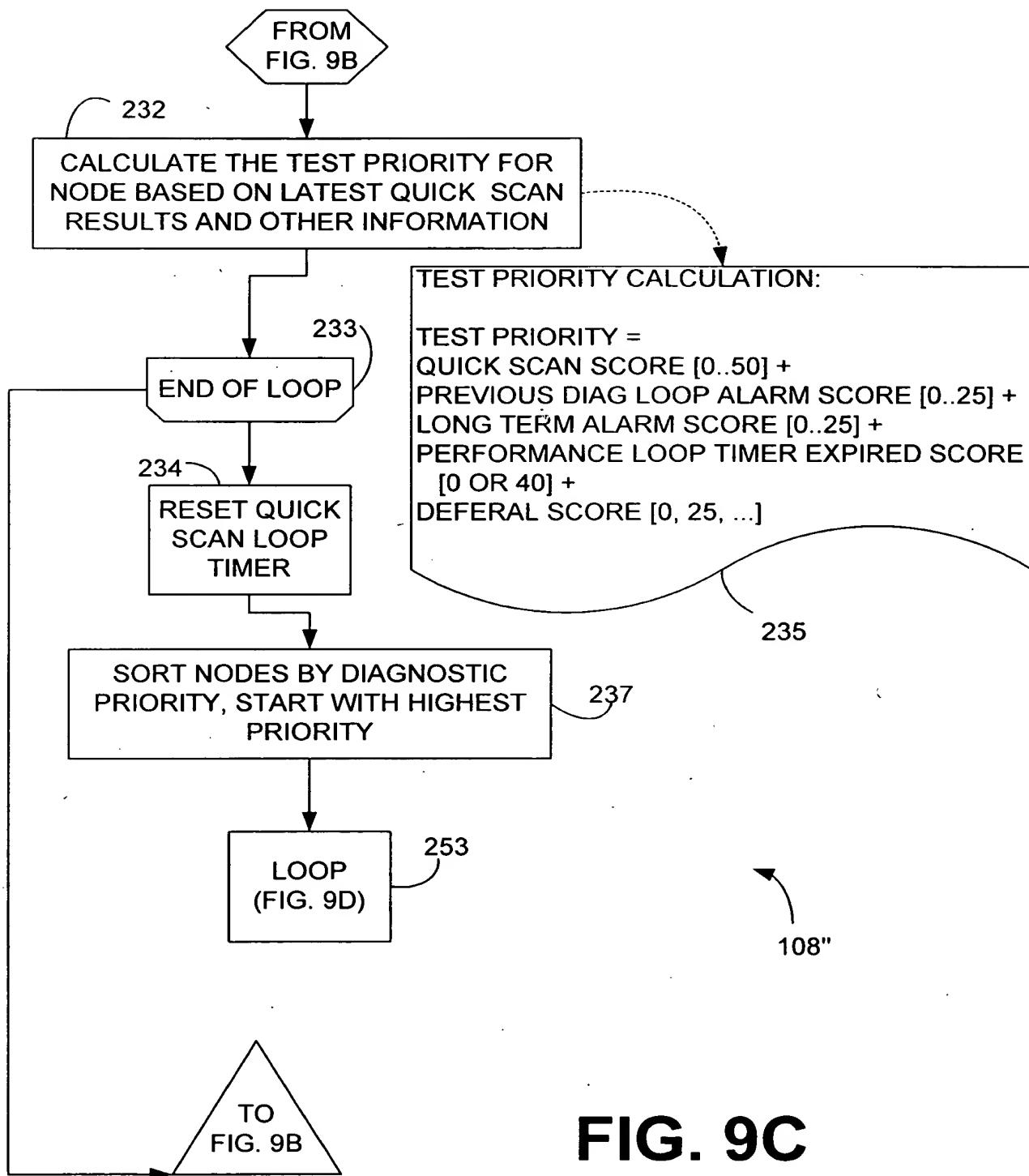
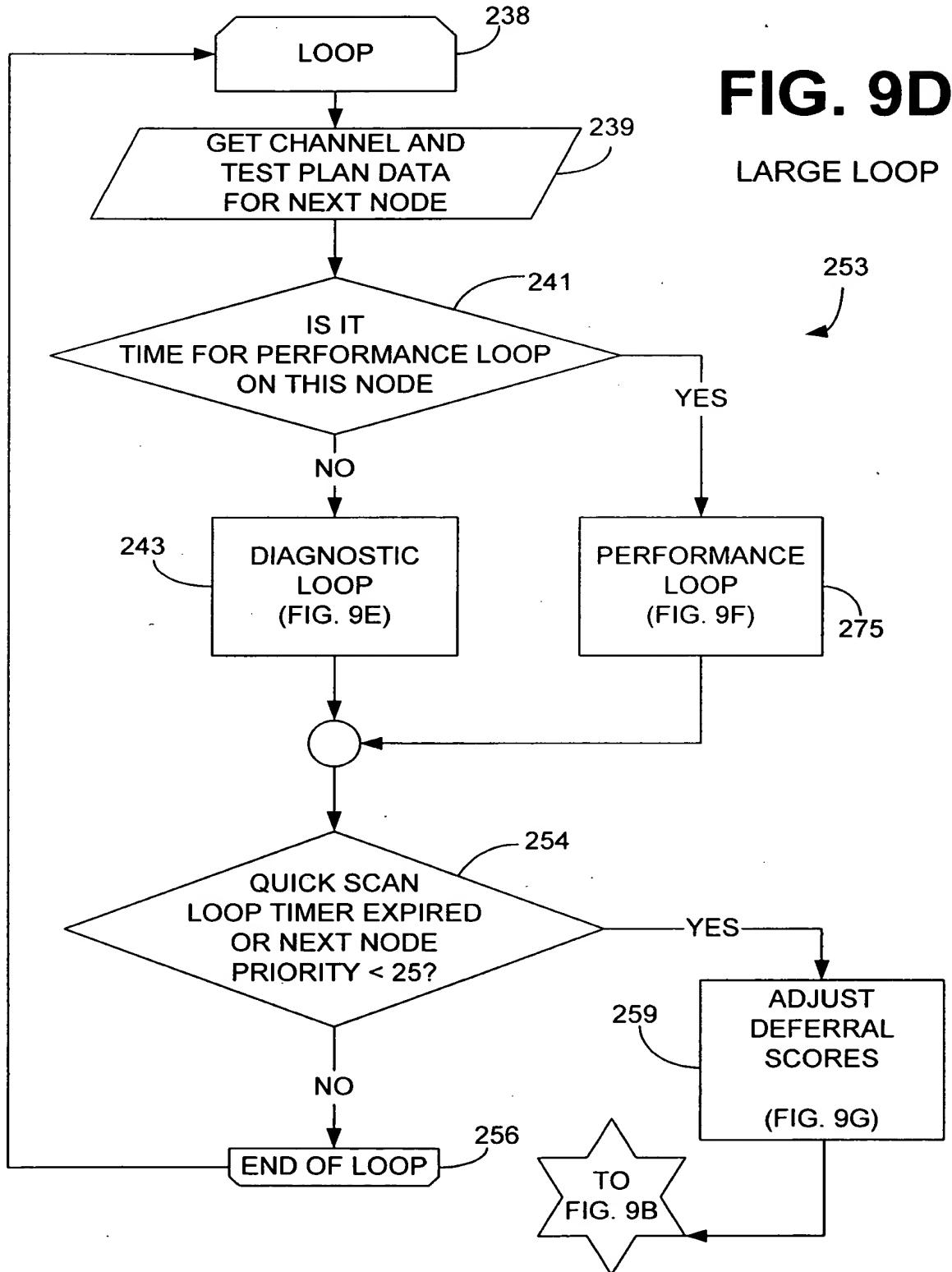


FIG. 9B

**AUTOMATIC MODE
(SECOND EMBODIMENT - CONTINUED)**



AUTOMATIC MODE
(SECOND EMBODIMENT - CONTINUED)



**AUTOMATIC MODE
(SECOND EMBODIMENT - CONTINUED)**

DIAGNOSTIC LOOP

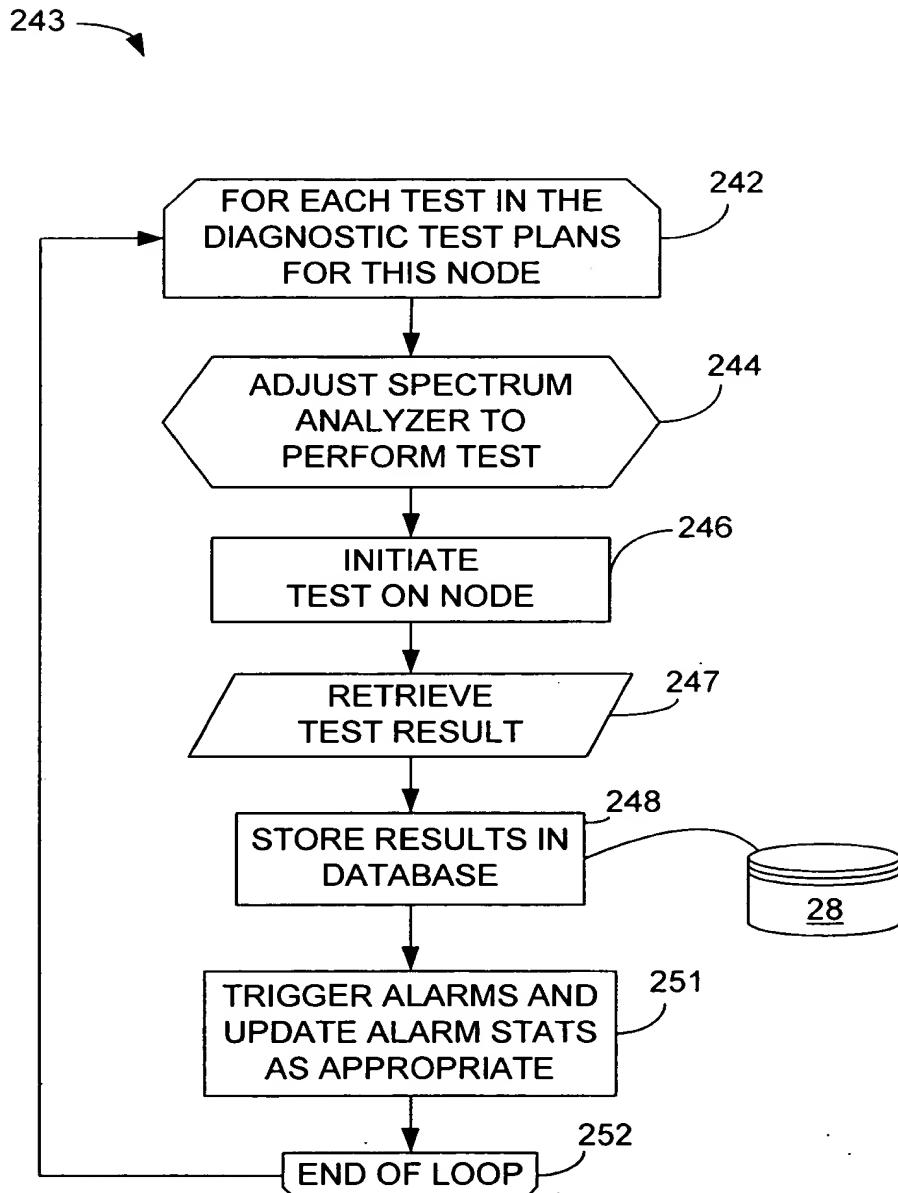
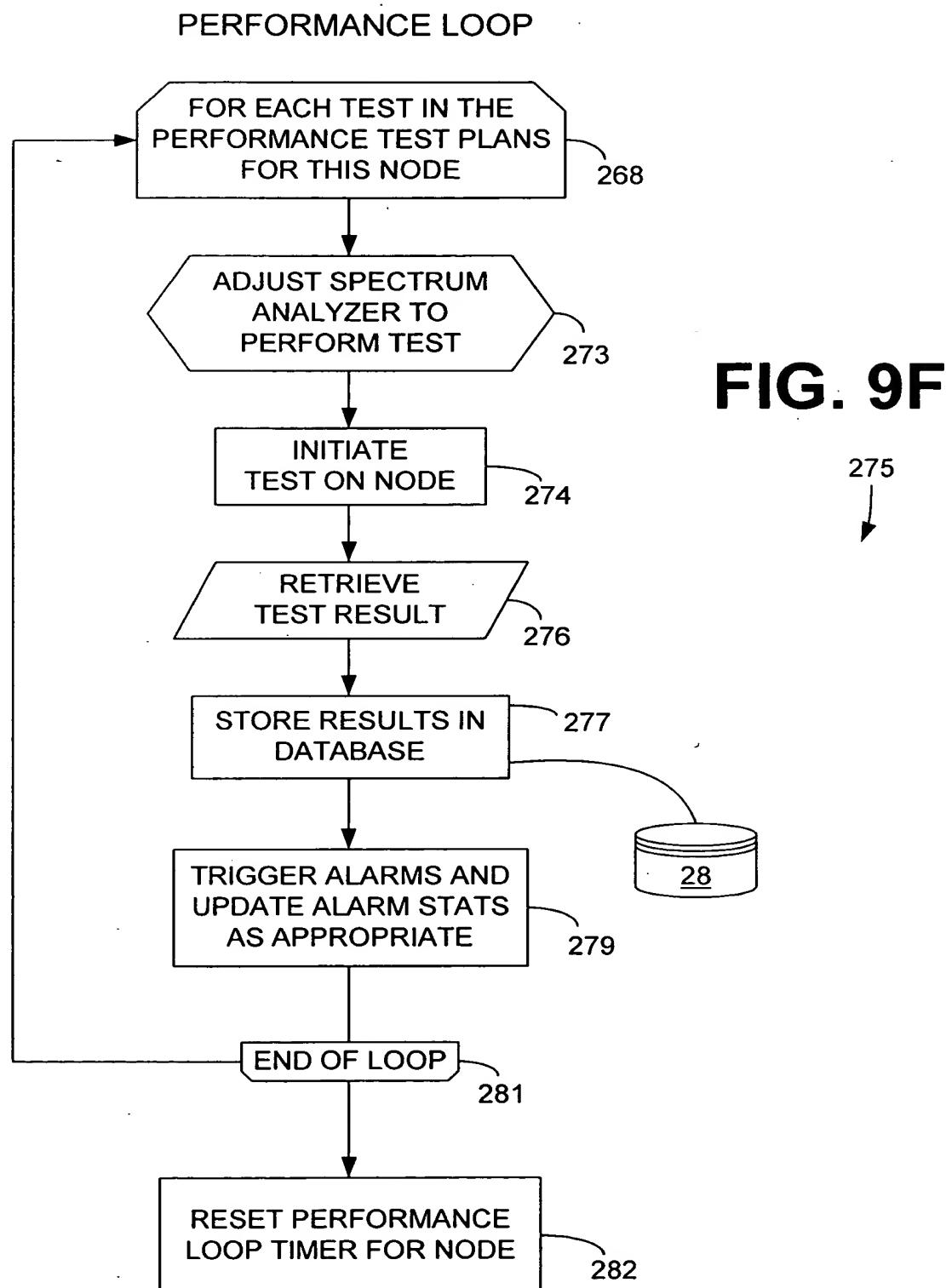


FIG. 9E

**AUTOMATIC MODE
(SECOND EMBODIMENT - CONTINUED)**



AUTOMATIC MODE
(SECOND EMBODIMENT - CONTINUED)

ADJUST DEFERAL SCORES LOOP

FIGURE 9G

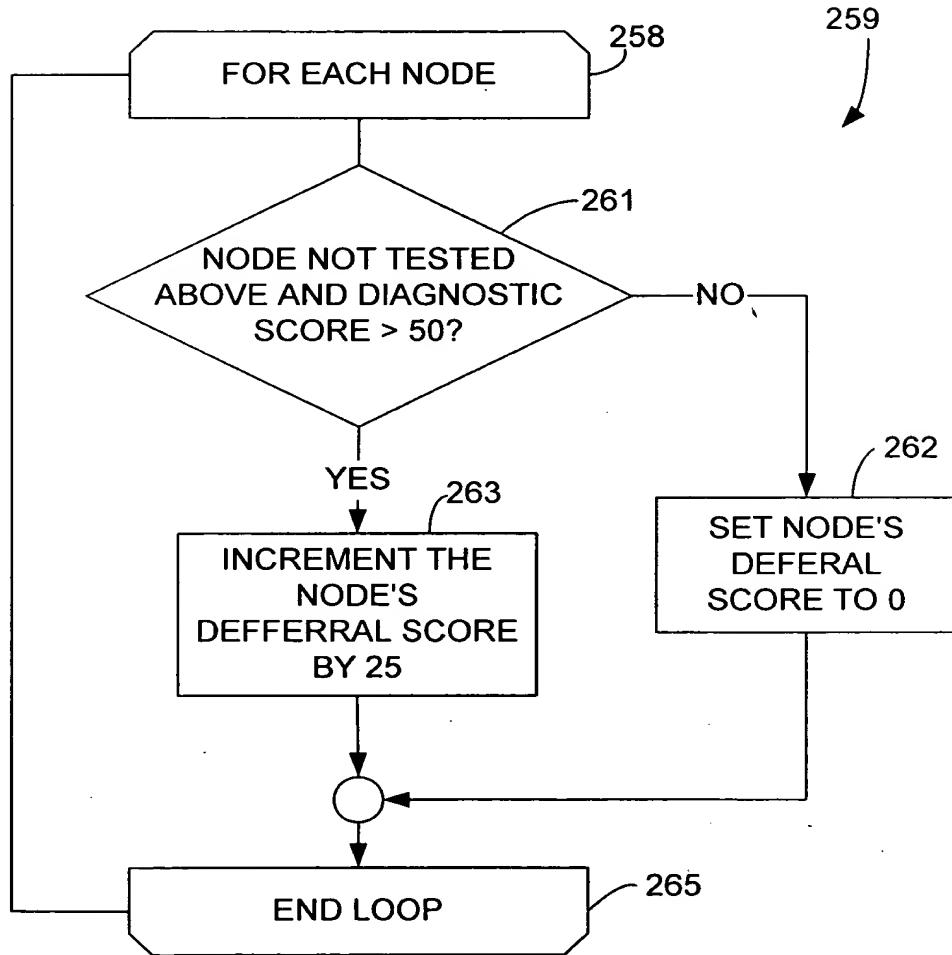
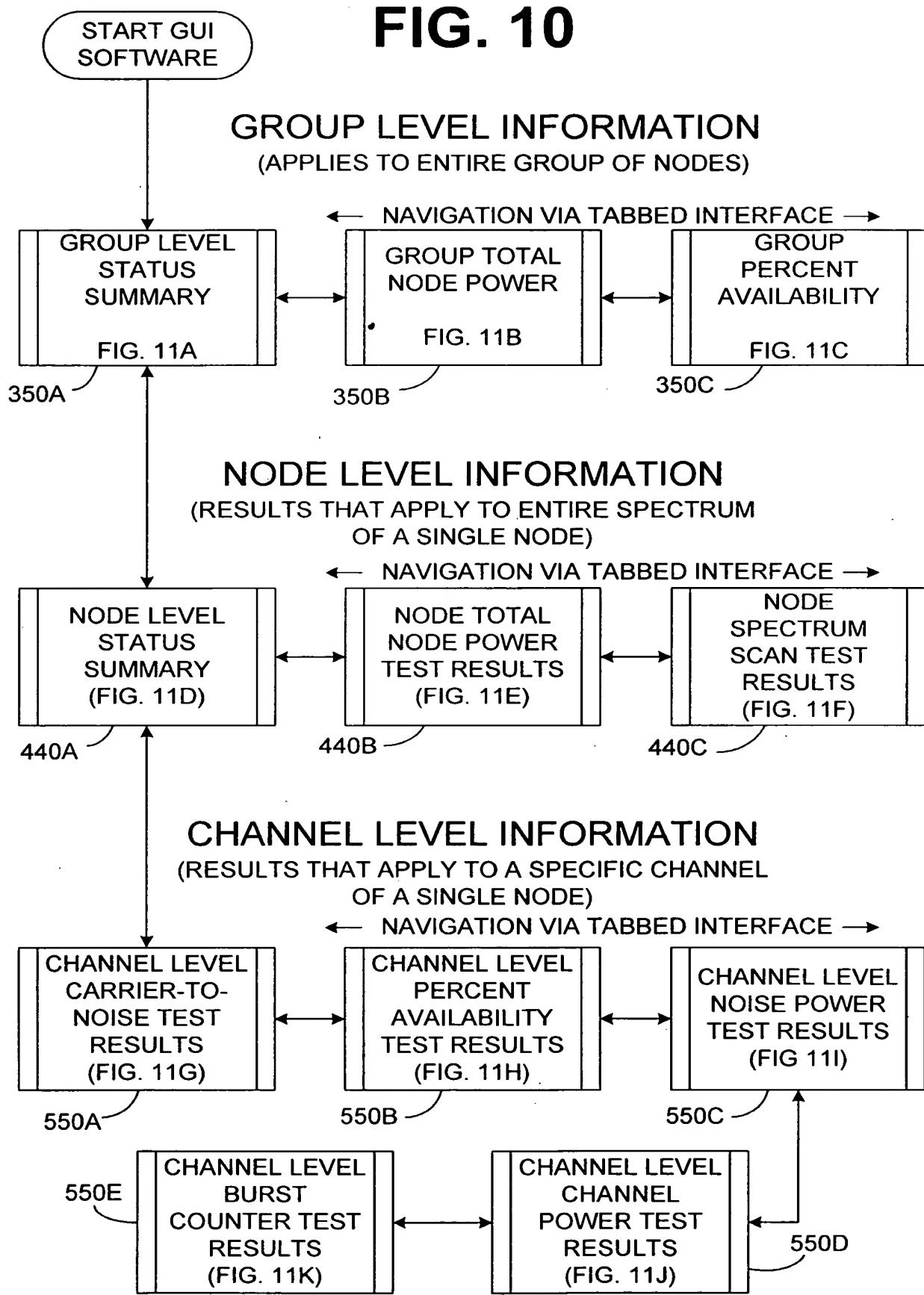


FIG. 9G

FIG. 10



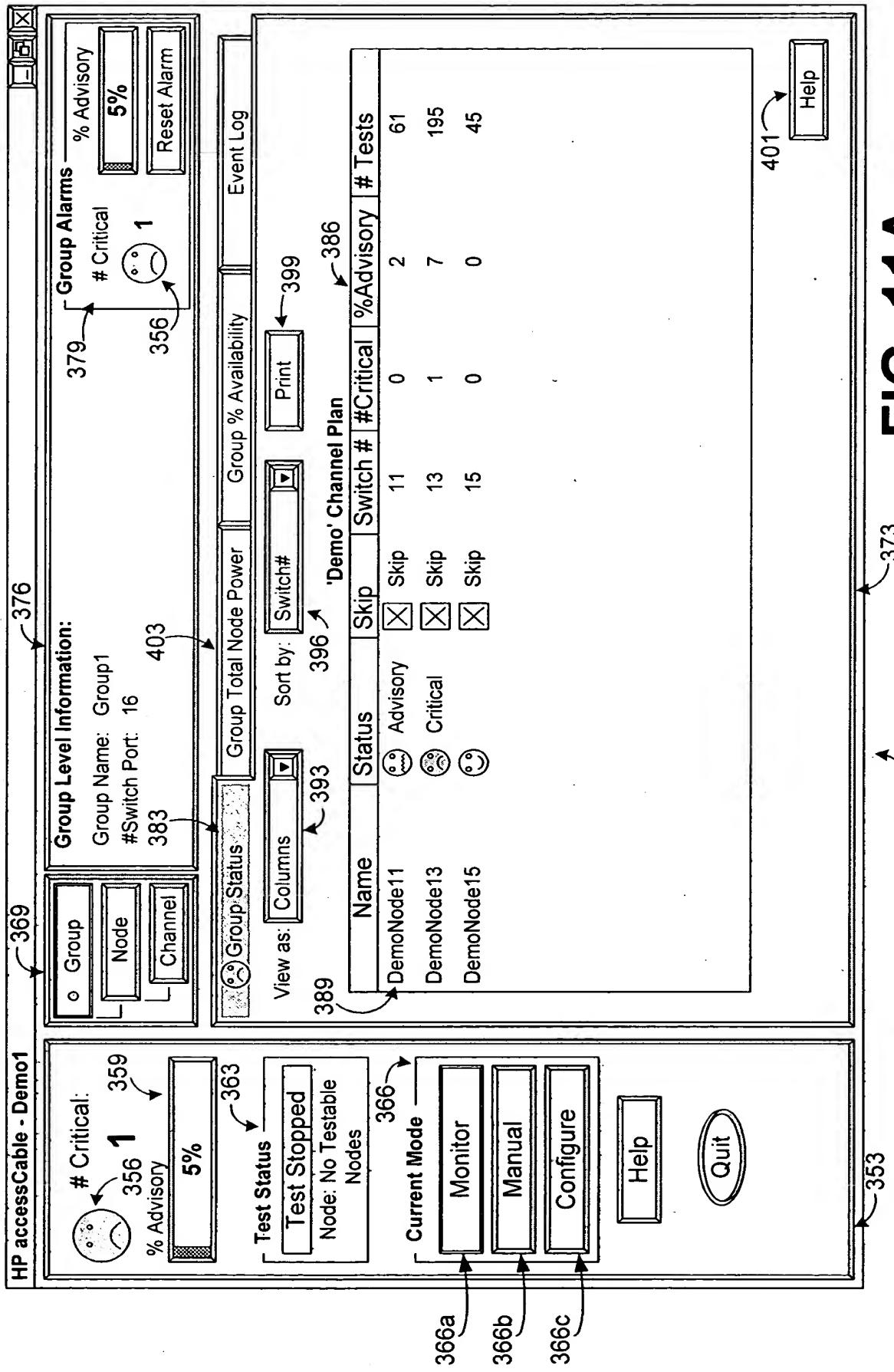


FIG. 11A

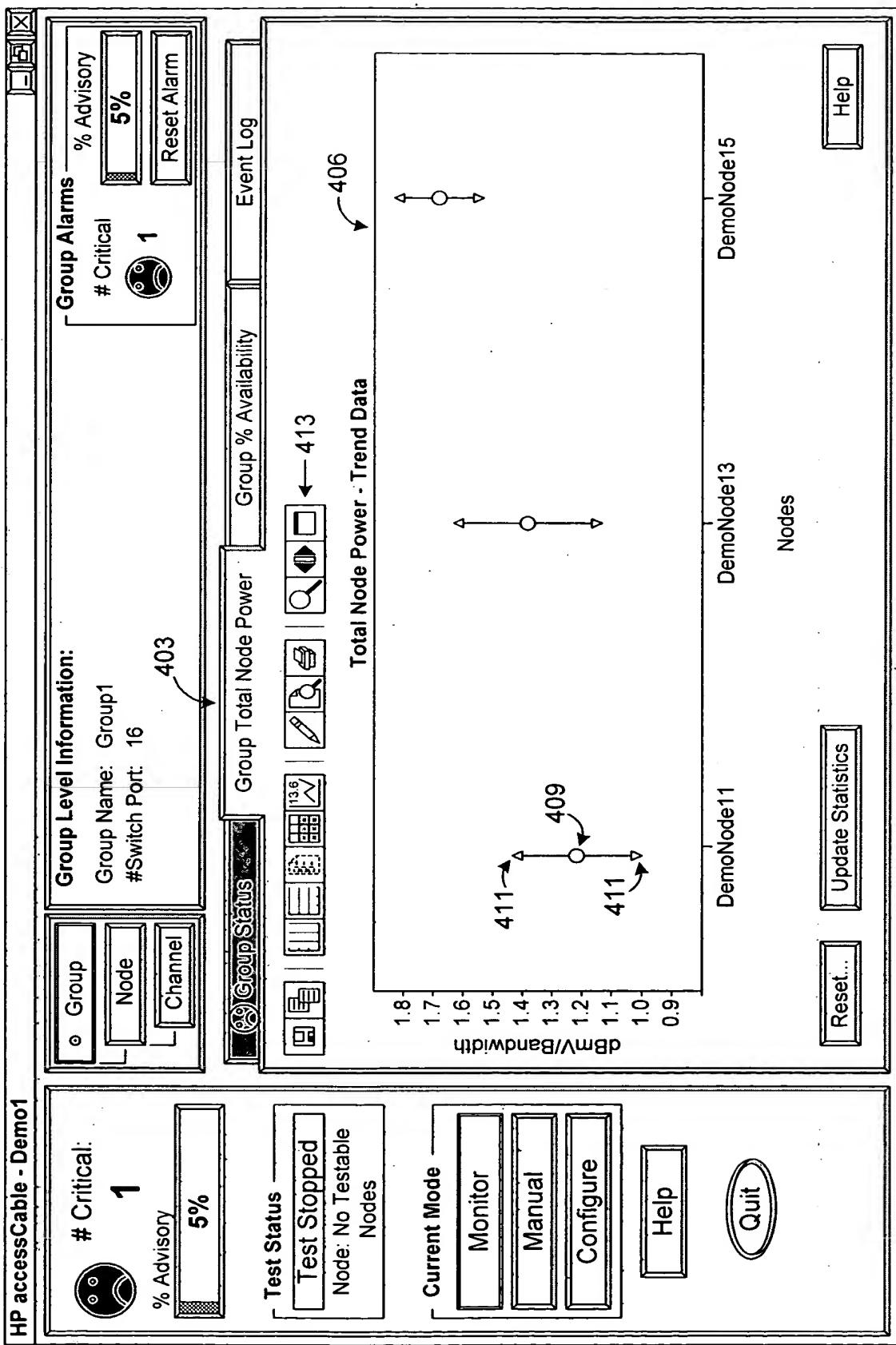


FIG. 11B

373
350b

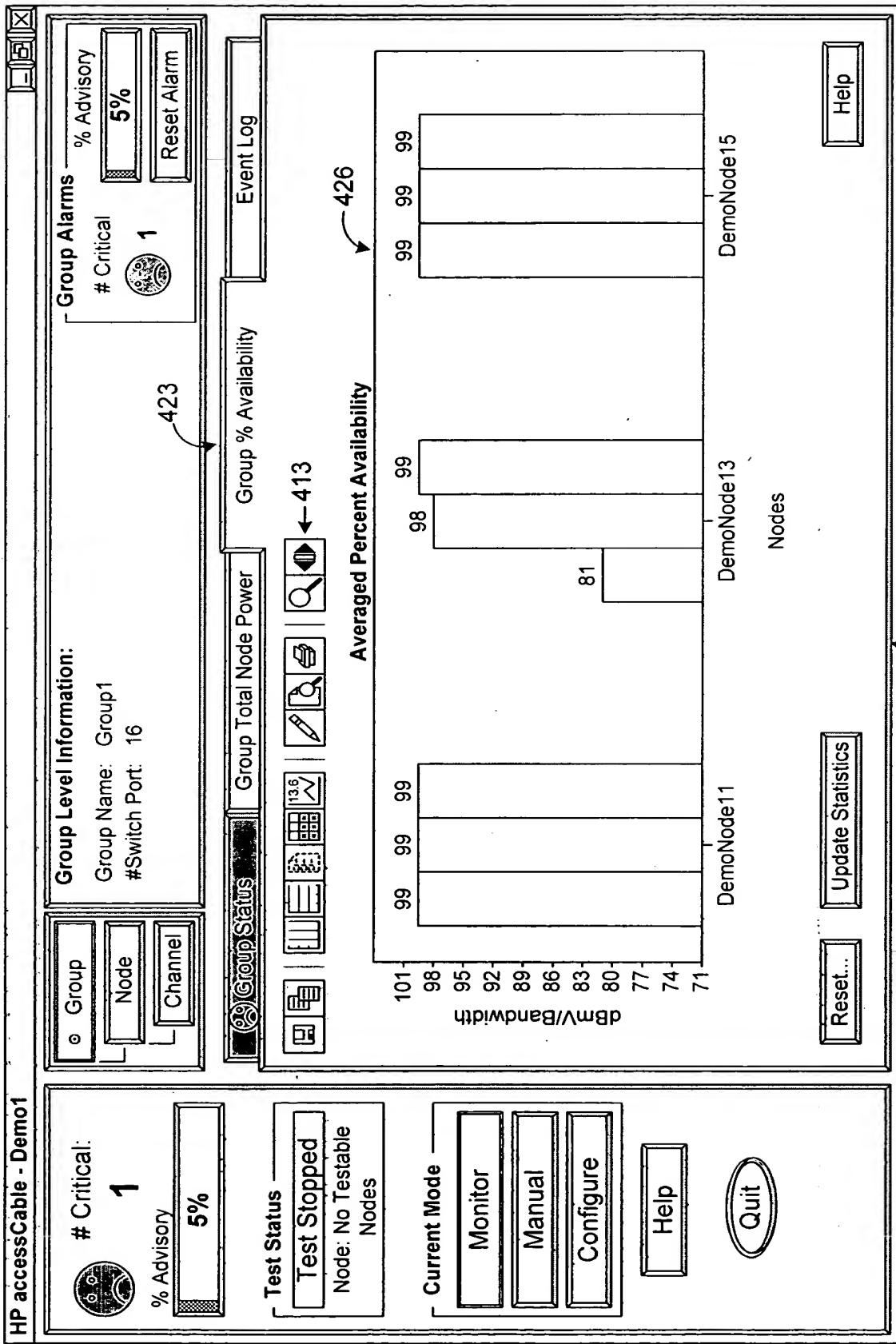
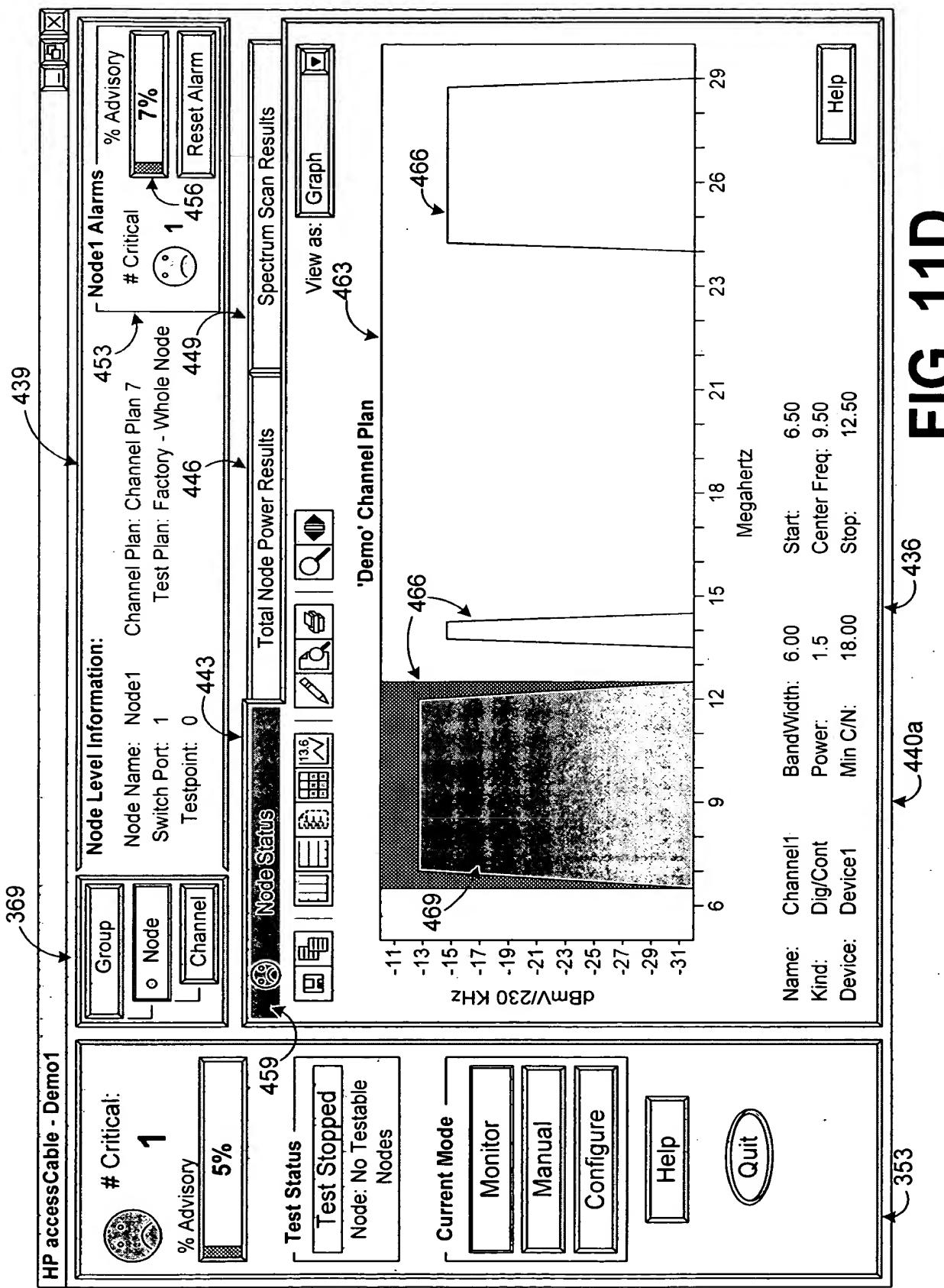


FIG. 11C

350C → 373



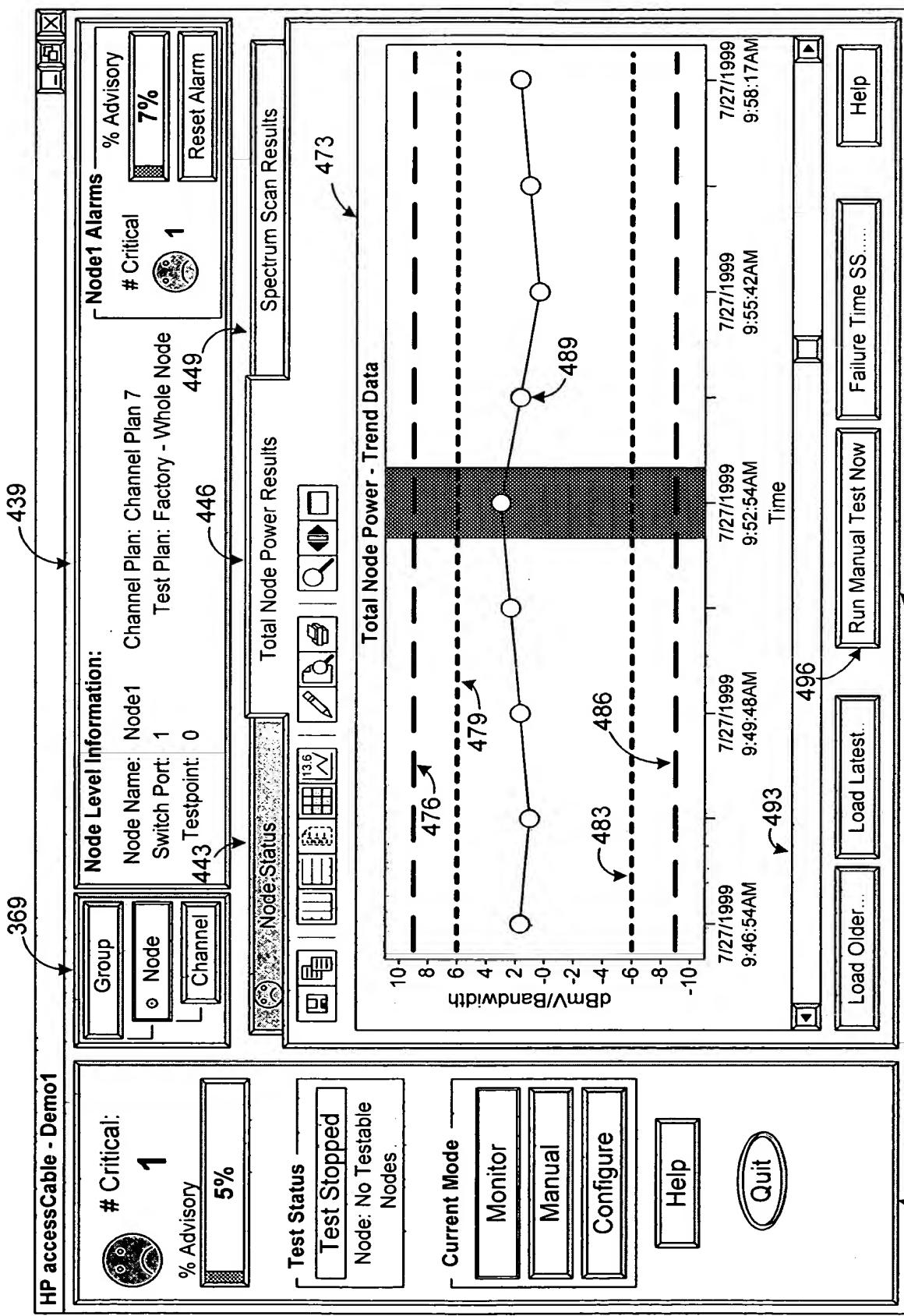


FIG. 11E

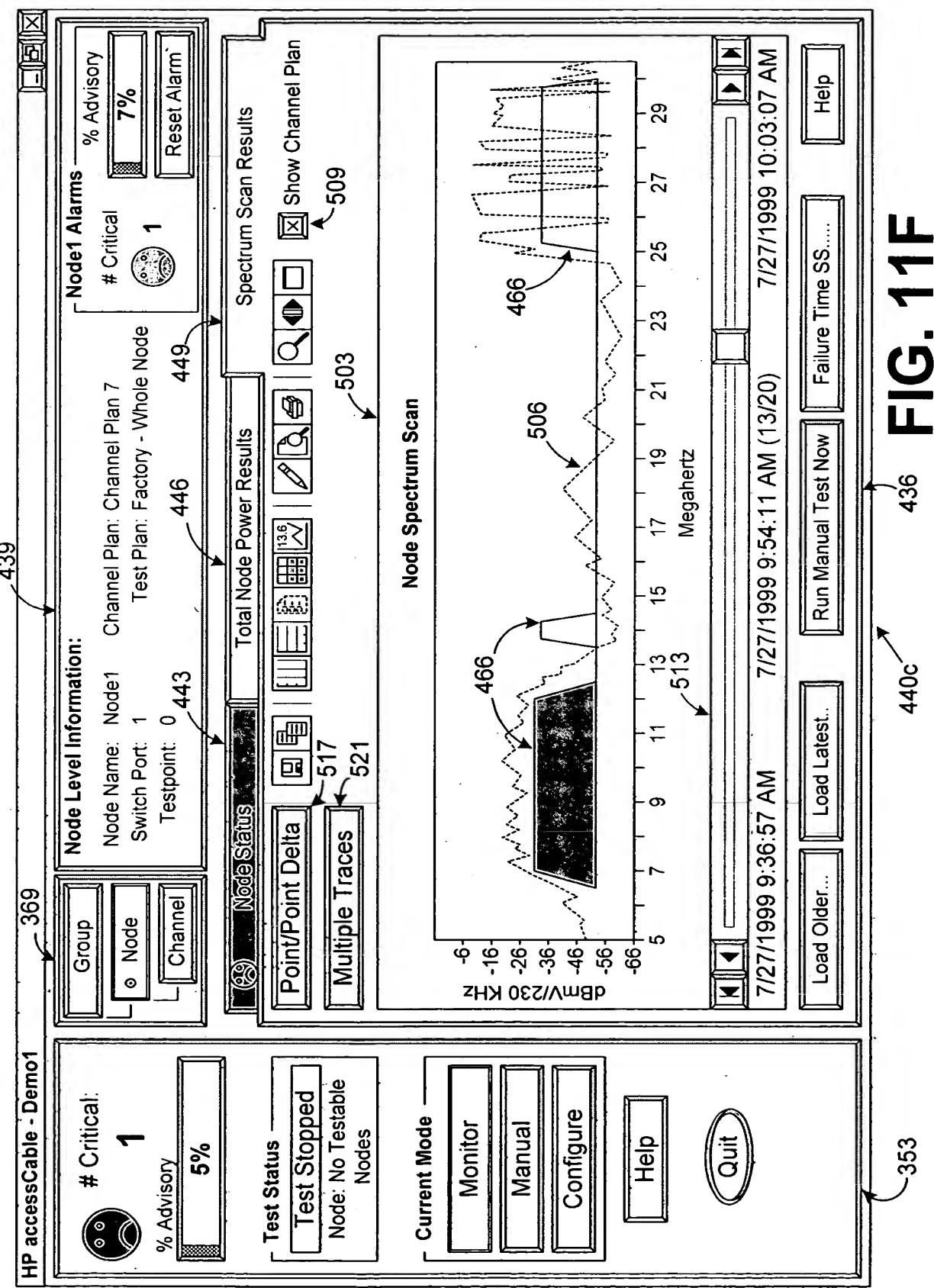
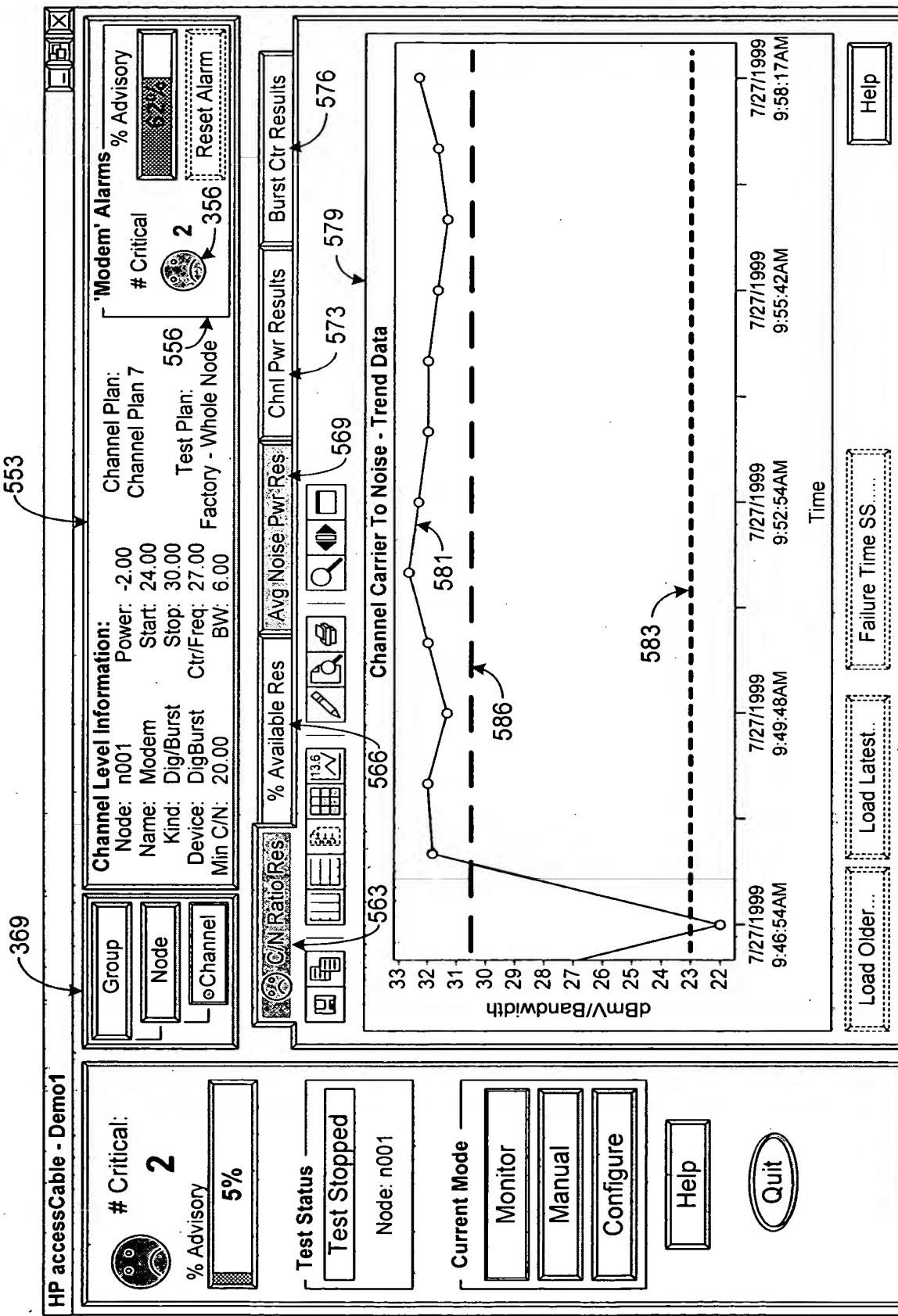


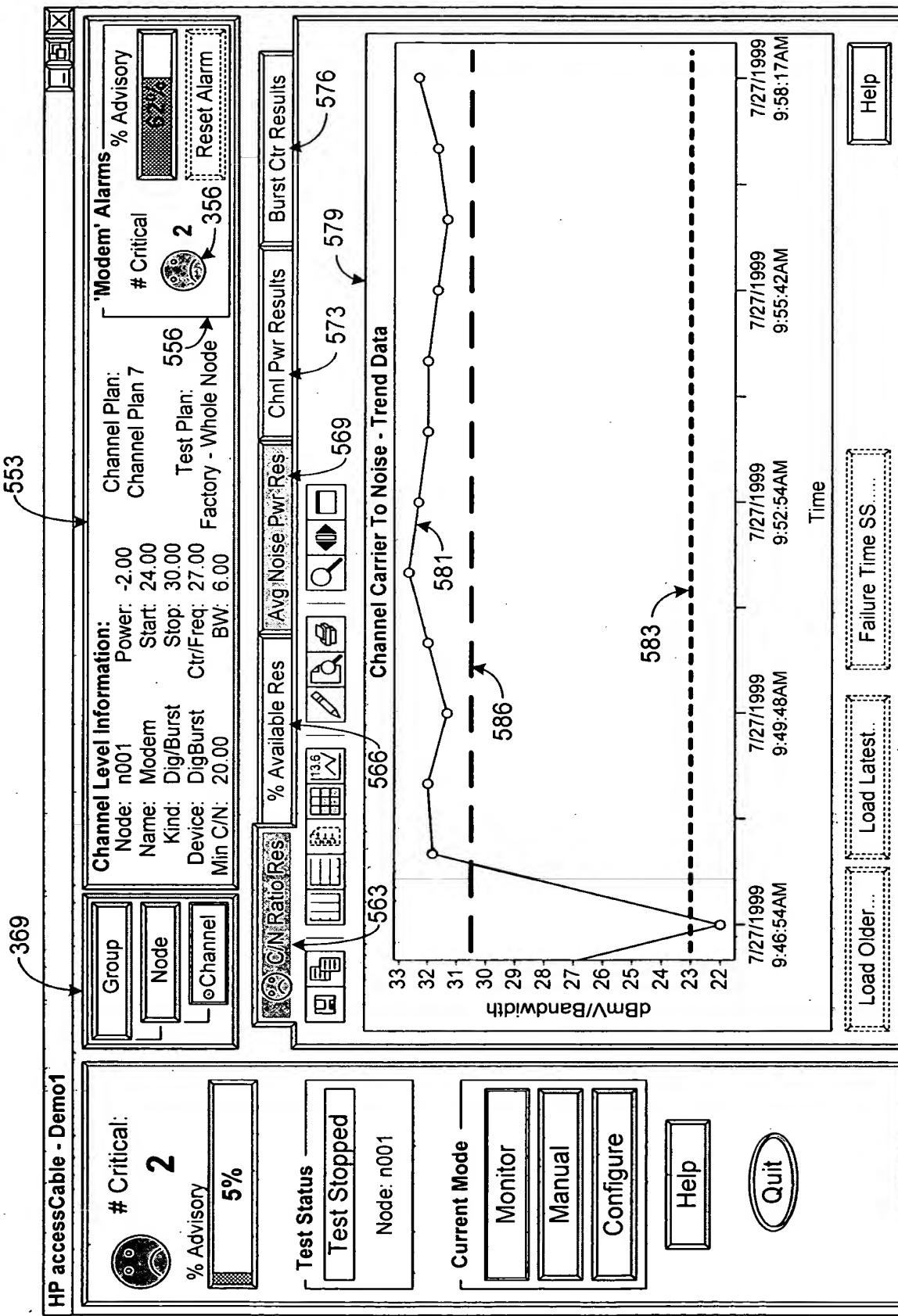
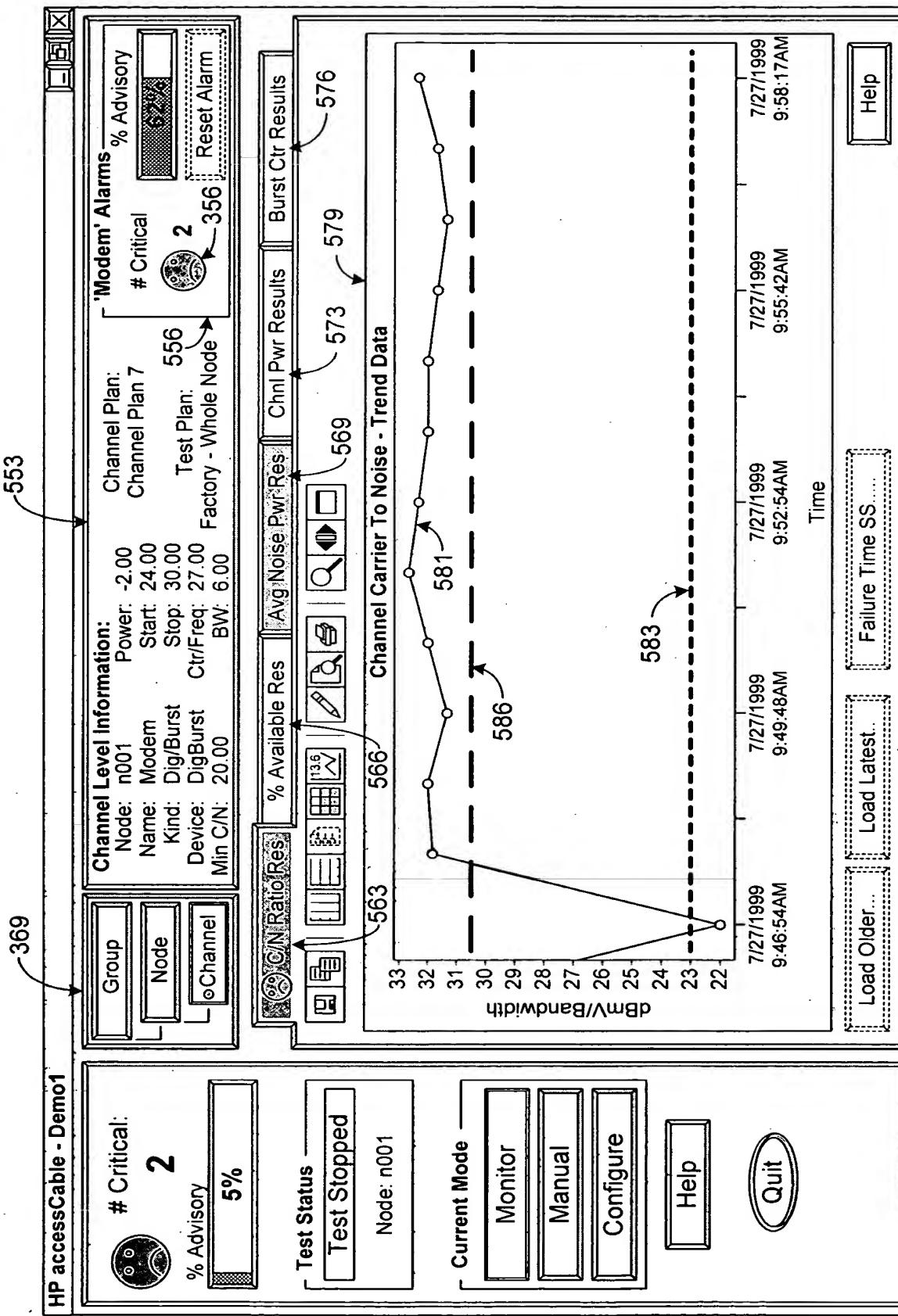
FIG. 11F

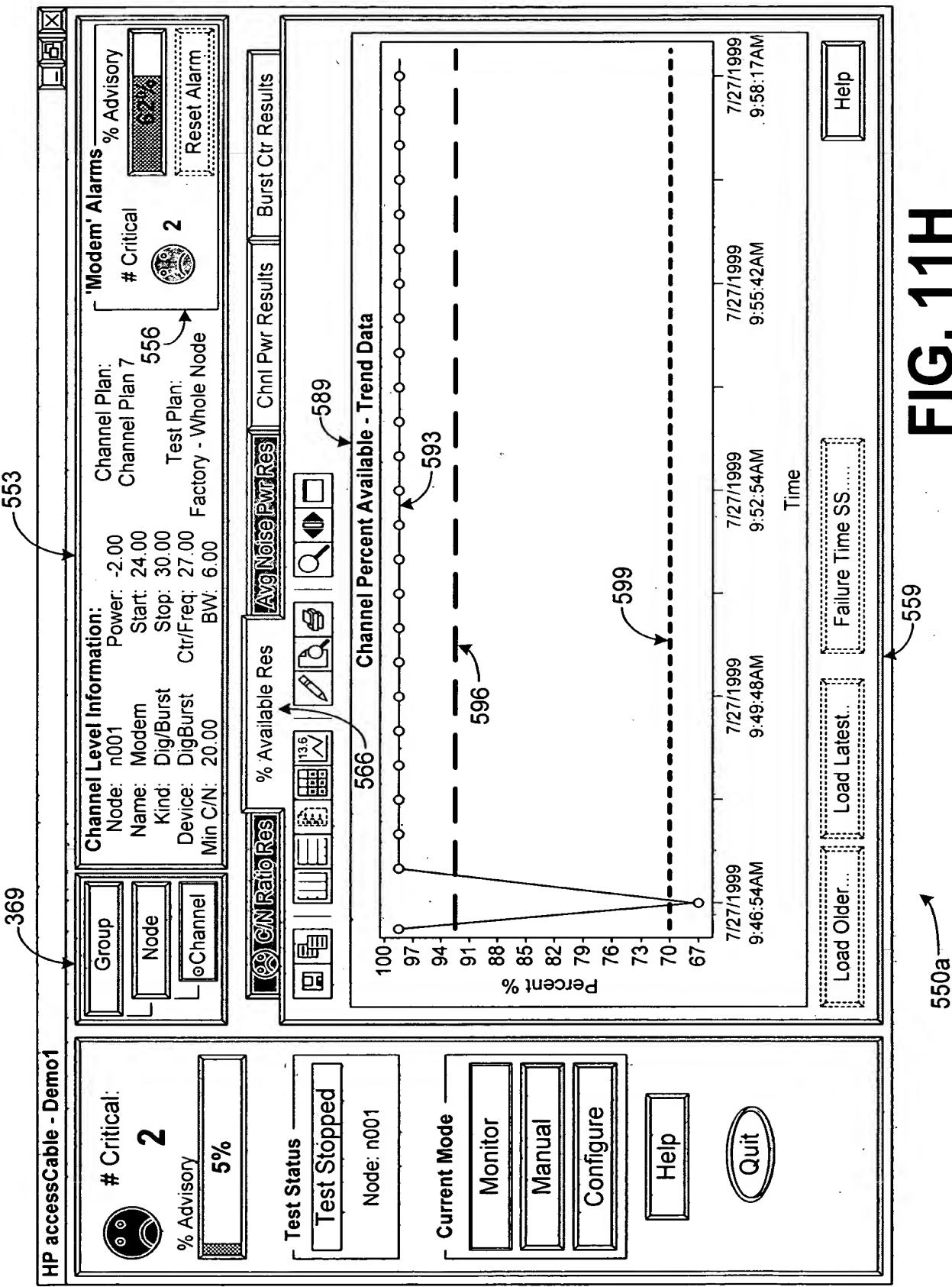
FIG. 11G



550a →

FIG. 11G





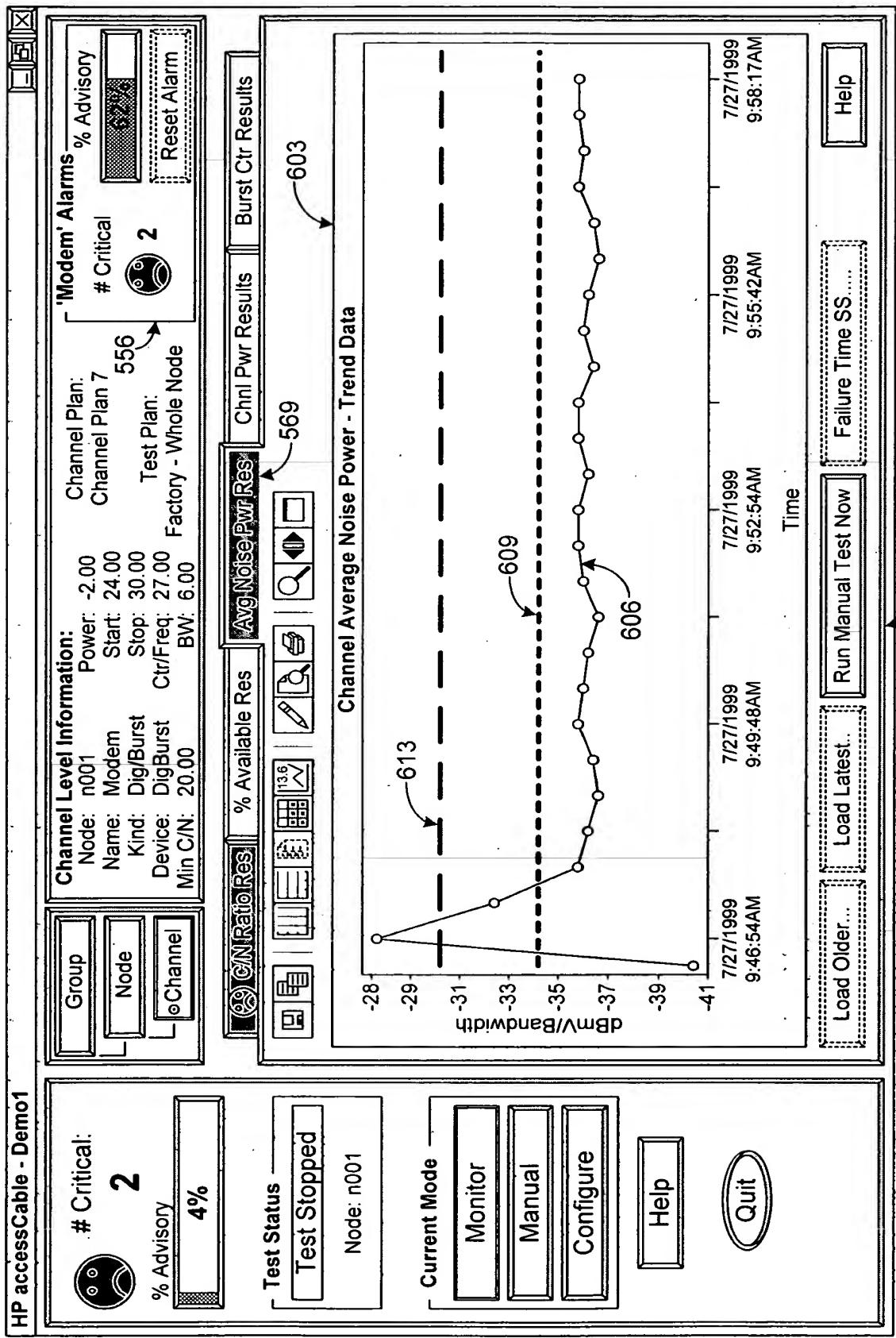


FIG. 11

550c →

559

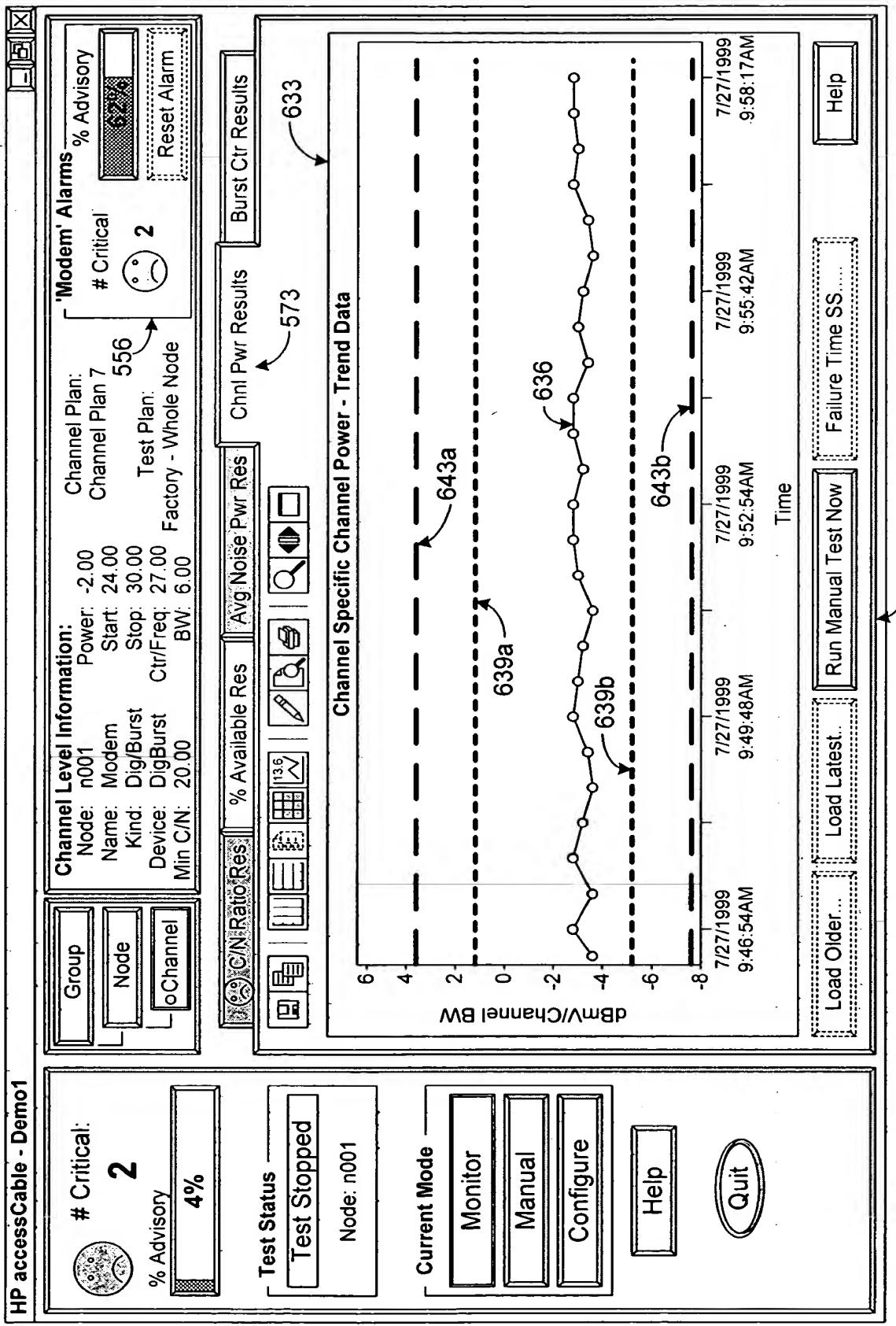
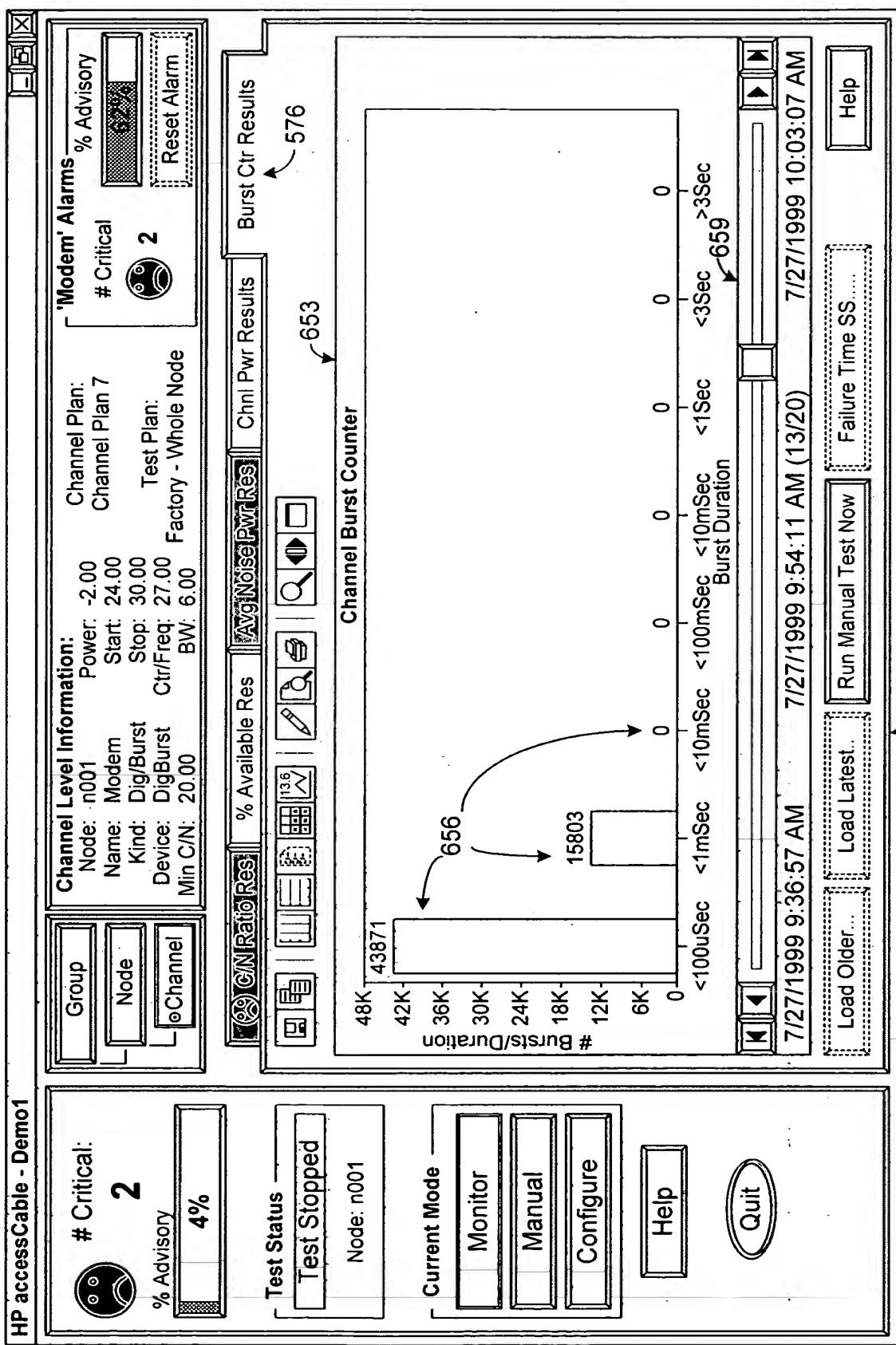


FIG. 11J

FIG. 11K

559 →



TEST CONFIGURATION GUI NAVIGATION

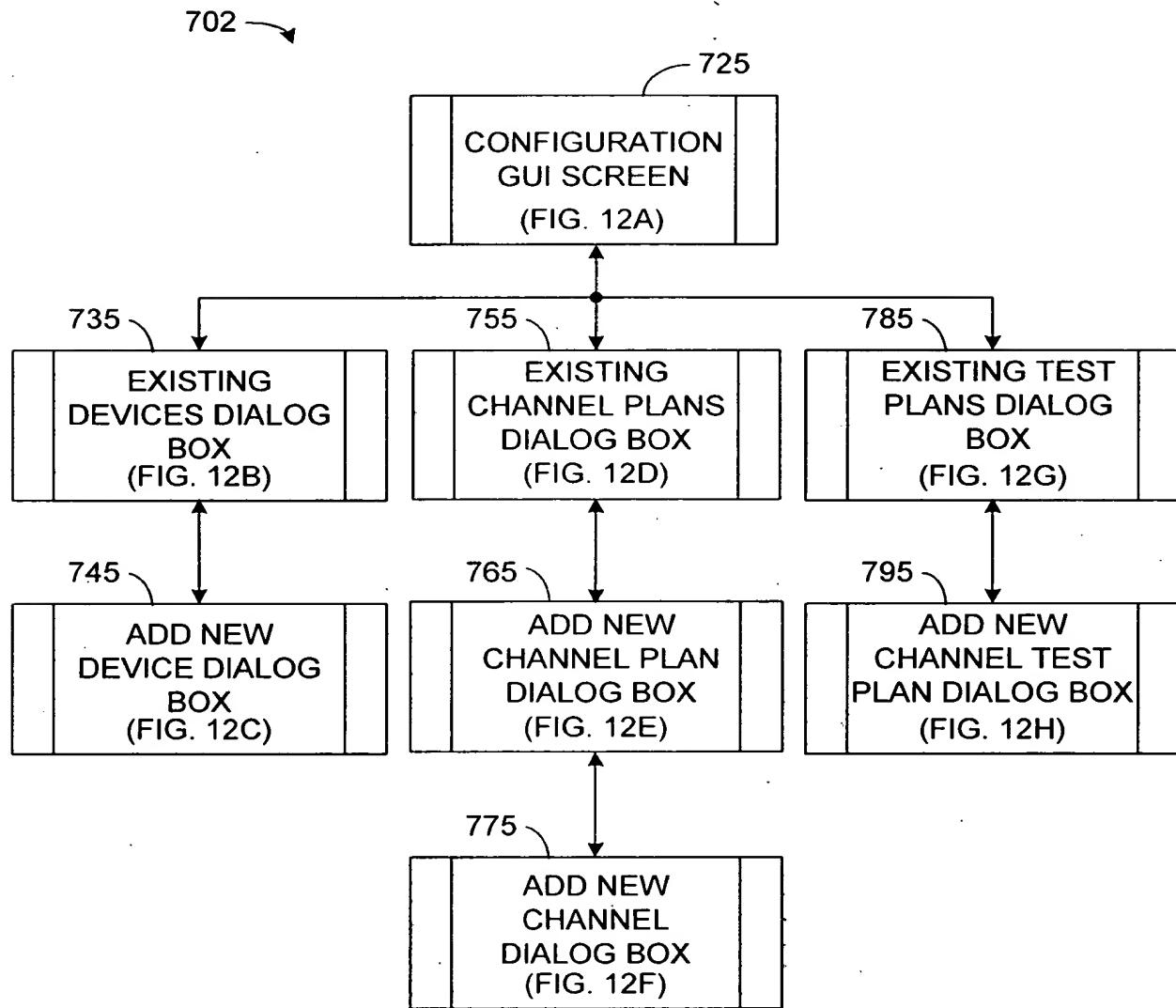


FIG. 12

FIG. 12A

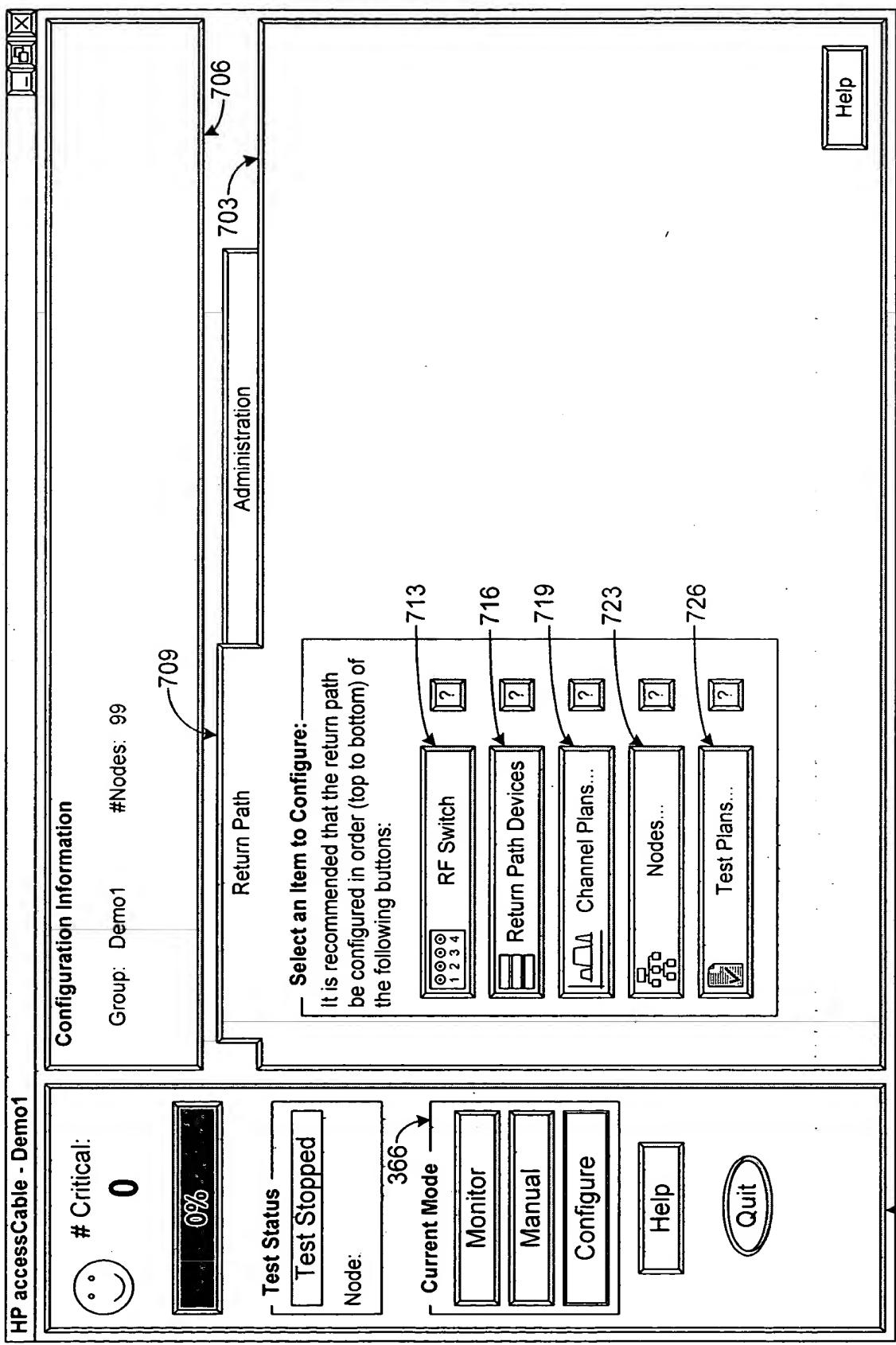
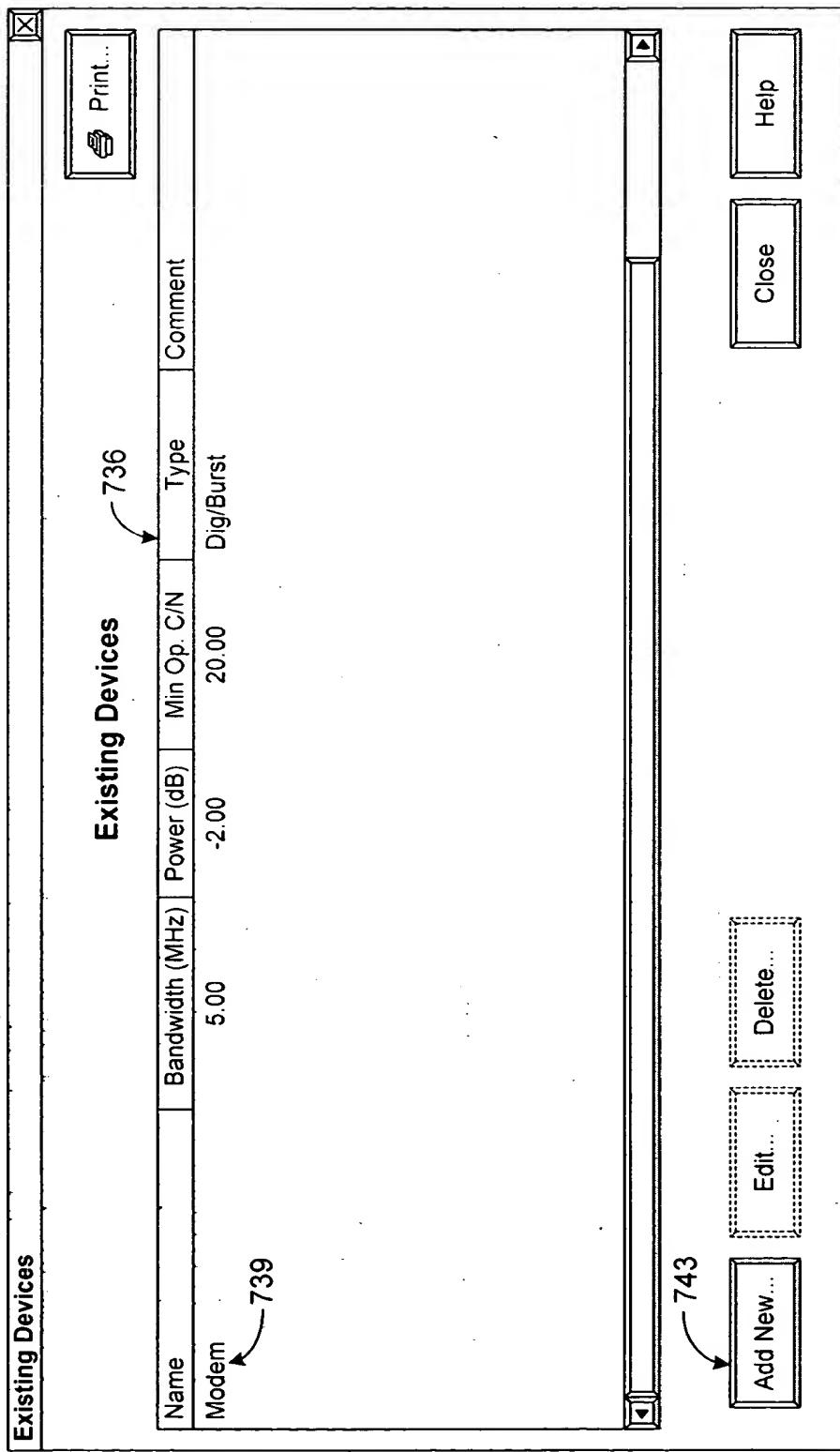


FIG. 12B



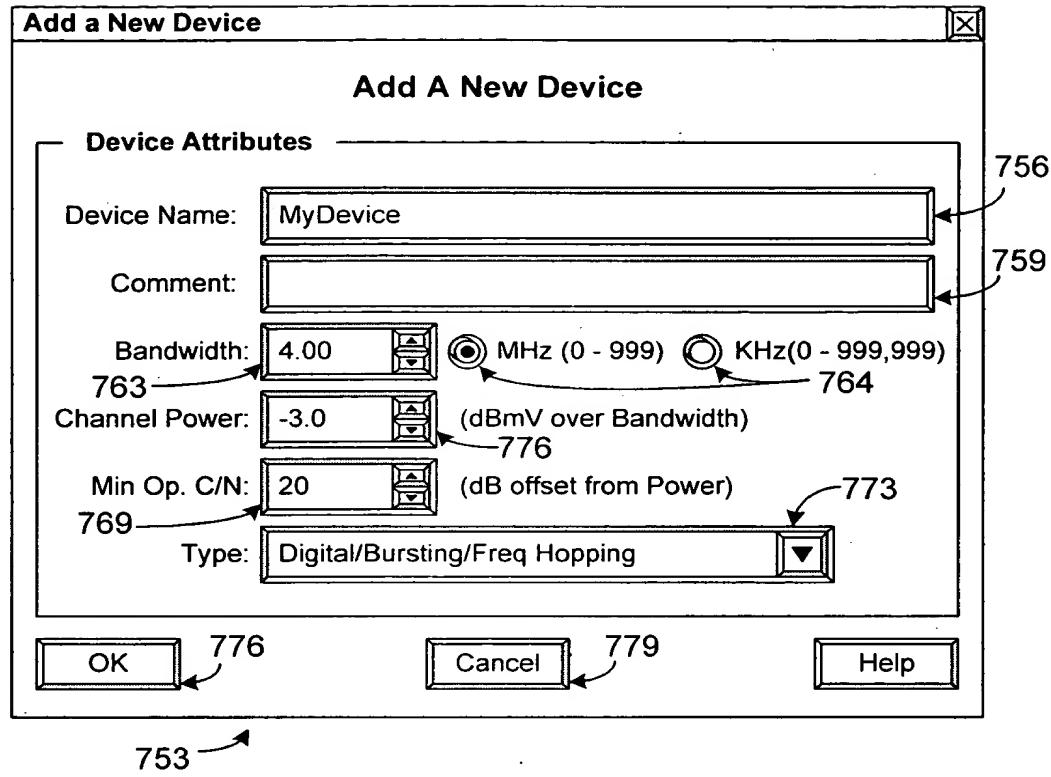
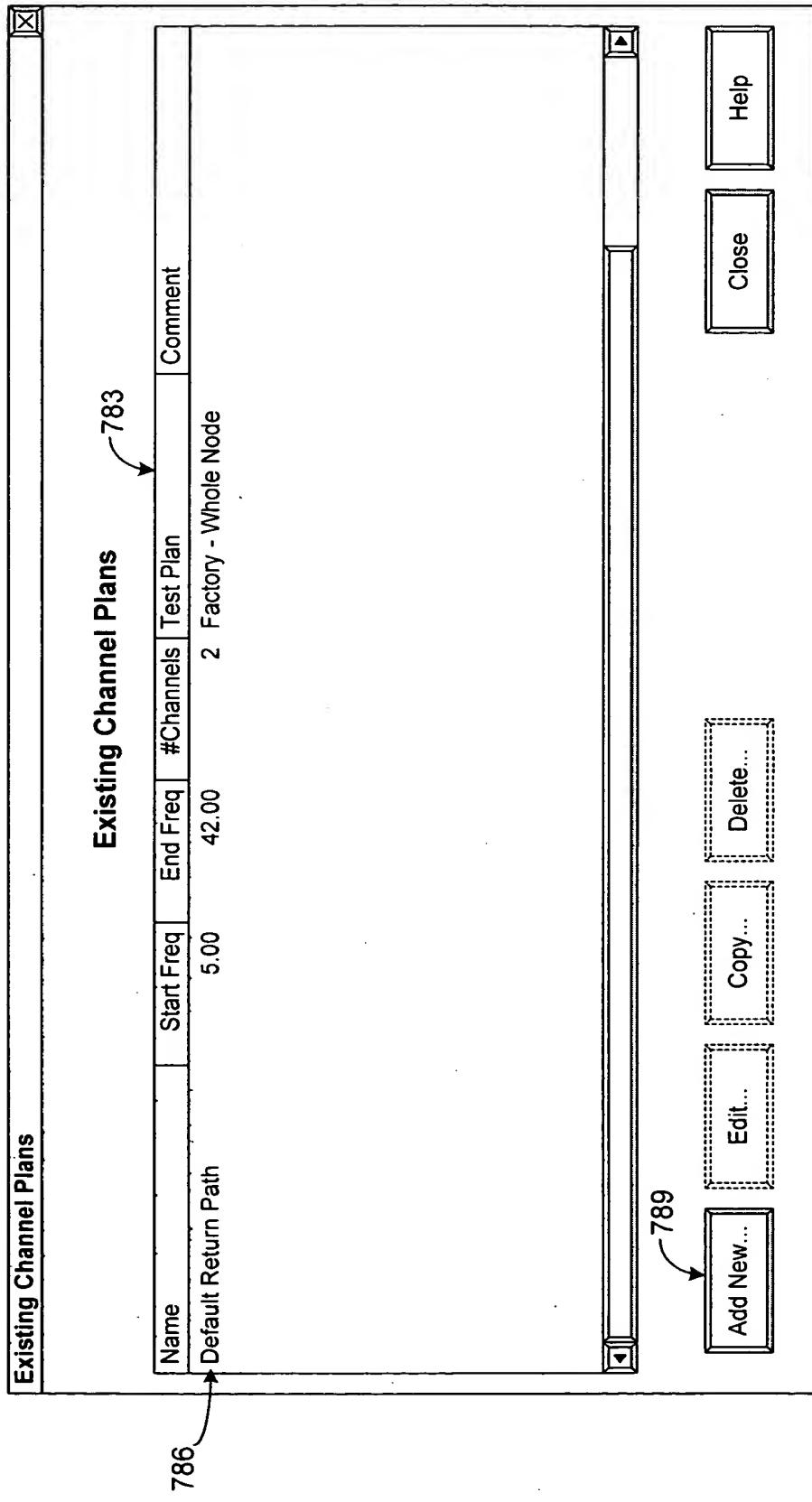
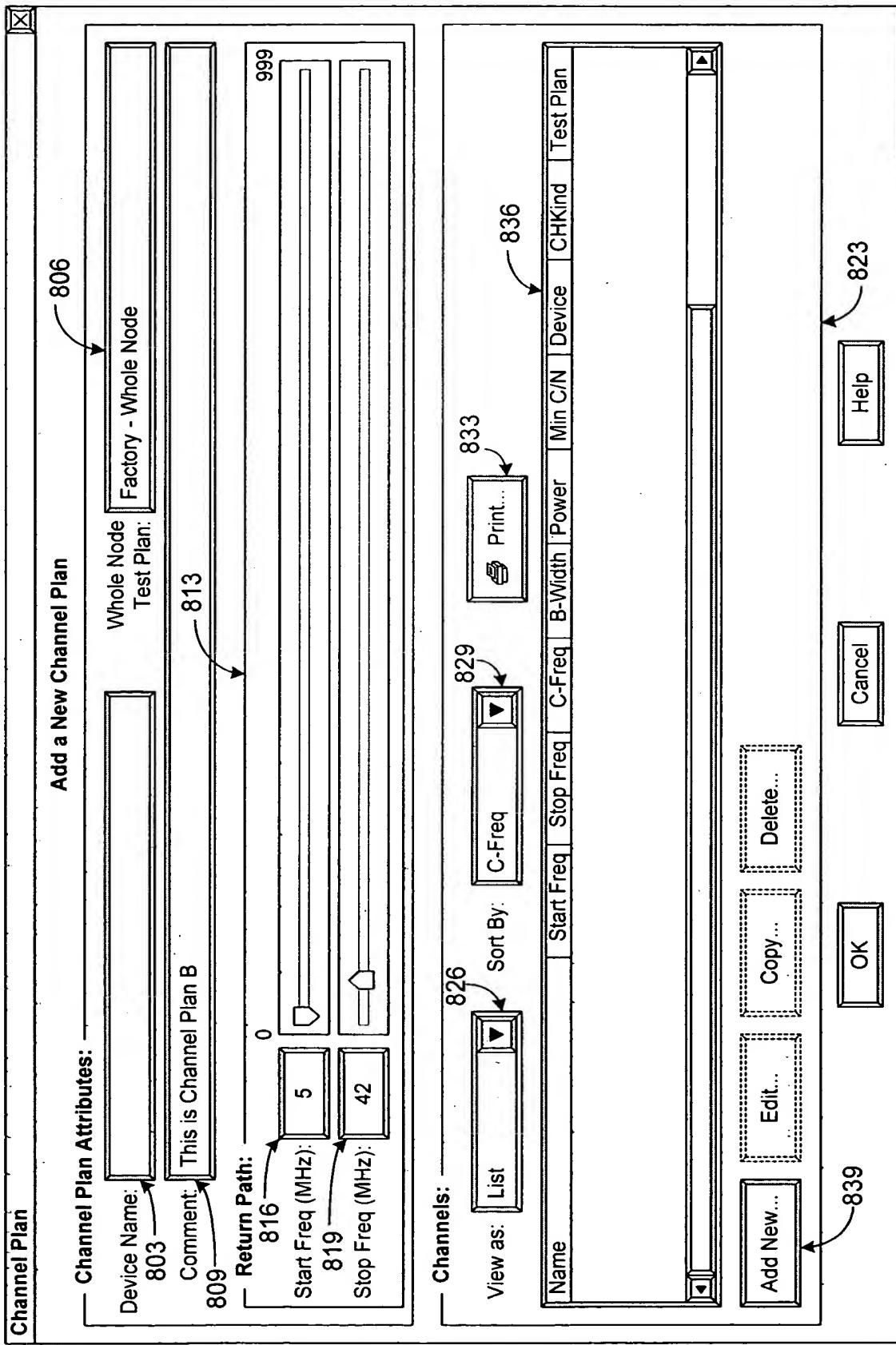
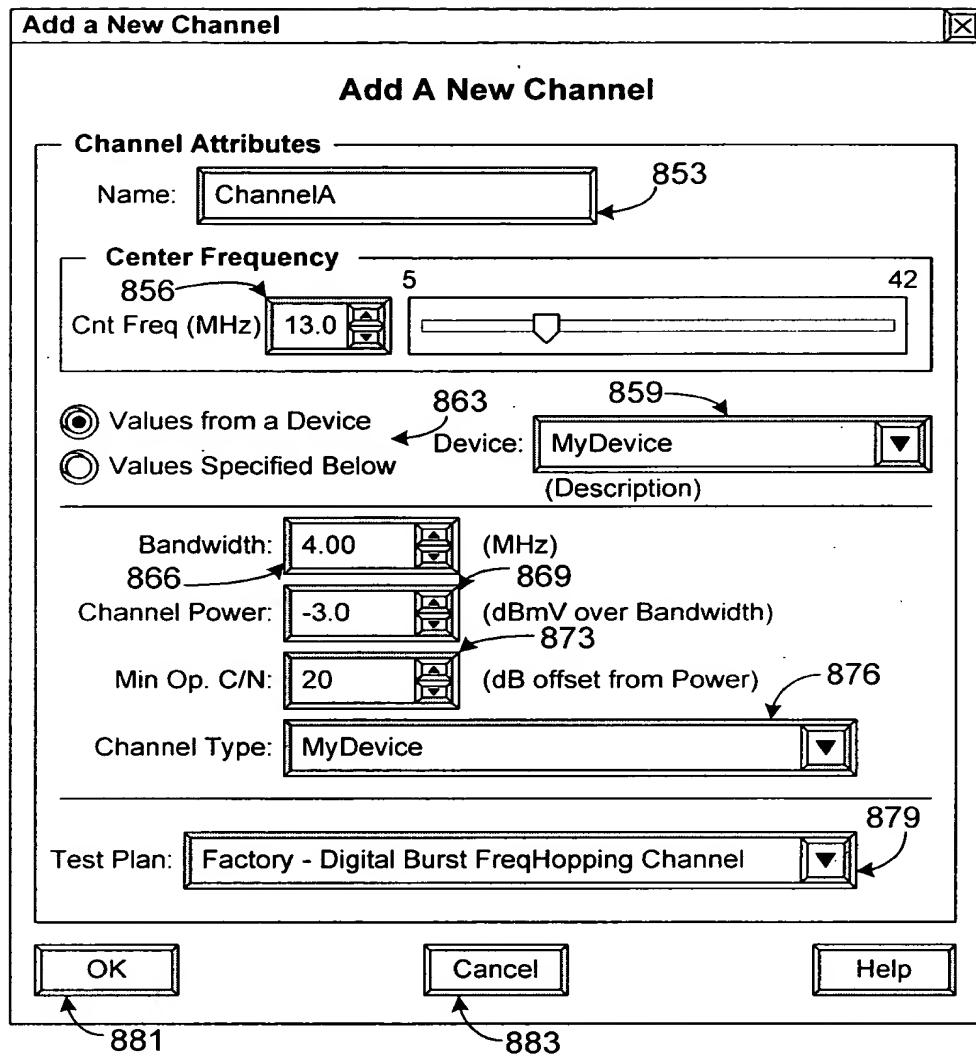


FIG. 12C

FIG. 12D





**FIG. 12F**

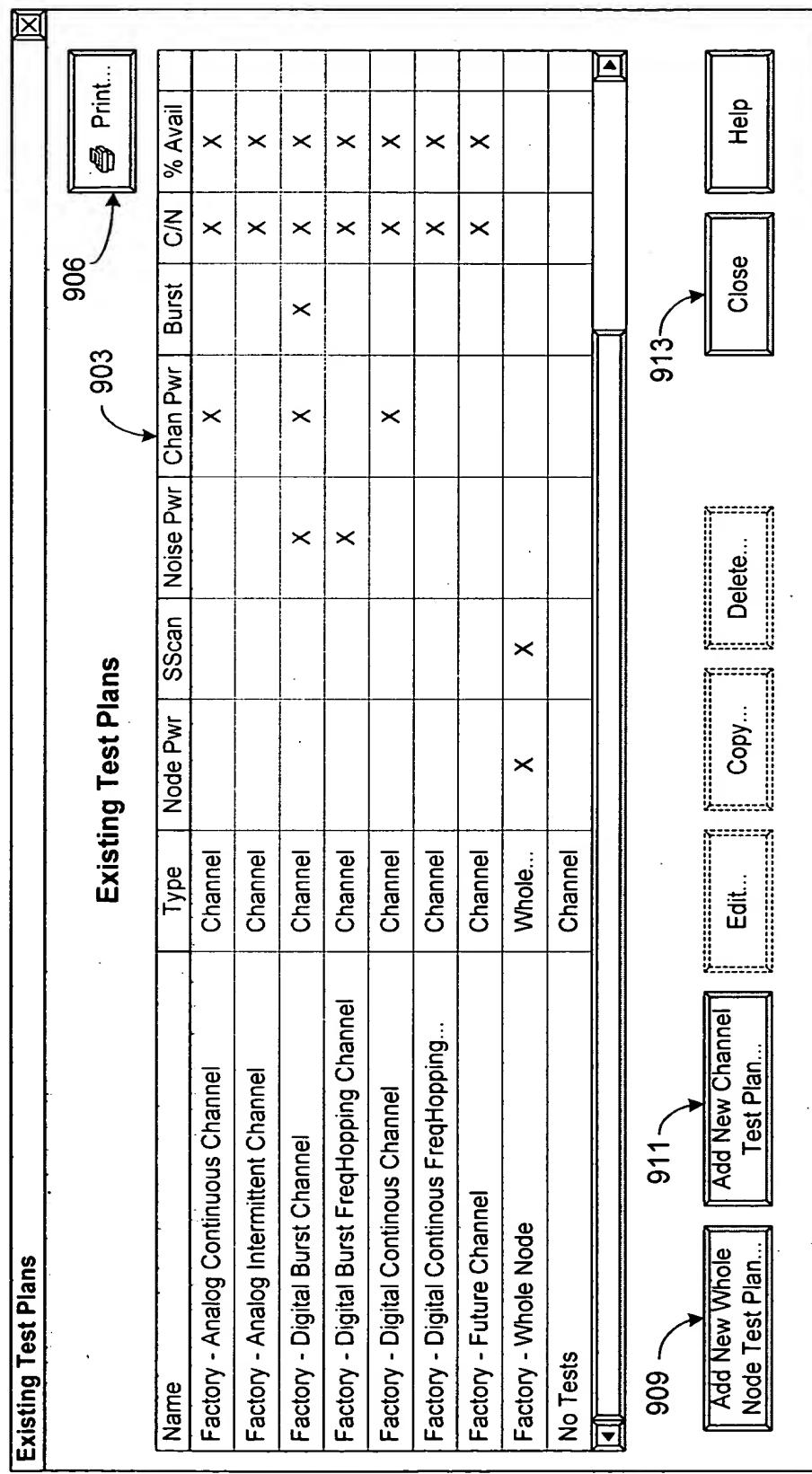


FIG. 12G

Add a New Channel Test Plan

Add A New Channel Test Plan

Test Plan Name: **Test Plan 27**

941 993 Disable All Critical Alarms 971 995 Disable All Advisory Alarms 930

Available Tests and Alarm Limits

Average Noise Power 940 Alarm limits are relative to expected channel power minus min op c/n for the channel. <input checked="" type="checkbox"/> Critical > 3 (dB) 945 <input type="checkbox"/> Critical > 3 (dB) 943 <input type="checkbox"/> Advisory > 3 (dB) 949 <input type="checkbox"/> Advisory > 3 (dB) 947	Channel Power 970 Alarm limits are relative to expected channel power level. <input checked="" type="checkbox"/> Critical > 3 (dB) or < 3 (dB) 974 <input type="checkbox"/> Critical > 3 (dB) 973 <input type="checkbox"/> Advisory > 3 (dB) or < 3 (dB) 975 <input type="checkbox"/> Advisory > 3 (dB) 977 <input type="checkbox"/> Advisory < 3 (dB) 979
Carrier to Noise 951 950 Alarm limits are relative to the channel's min op c/n level. <input checked="" type="checkbox"/> Critical > 3 (dB) 955 <input type="checkbox"/> Critical > 3 (dB) 953 <input type="checkbox"/> Advisory > 9 (dB) 959 <input type="checkbox"/> Advisory > 9 (dB) 957	% Available 978 980 Alarm limits are absolute percentages. <input checked="" type="checkbox"/> Critical < 60 % 985 <input type="checkbox"/> Critical < 60 % 983 <input type="checkbox"/> Advisory < 90 % 989 <input type="checkbox"/> Advisory < 90 % 987
Burst Counter 961 960 Alarm limits are not applicable. <input type="checkbox"/> Critical Not Alarmable <input type="checkbox"/> Advisory Not Alarmable	

997 OK 999 Cancel Help

925 →

FIG. 12H